

GeneID	Symbol	Name	ChIP FDR	Down Regulated	ARACNe target	M0042+M2+M0	M0	Inr	ChIP-chip (Ci et al. 2009)	Down Regulated (Ci et al. 2009)
9937	DCLRE1A	DNA cross-link repair 1A (PSO2 homolog, <i>S. cerevisiae</i>)	7.73E-37	No	No	Yes	No	No	Yes	No
374354	NHLRC2	NHL repeat containing 2	7.73E-37	No	No	Yes	No	No	No	No
29979	UBQLN1	ubiquilin 1	3.30E-36	No	No	Yes	No	No	Yes	No
6897	TARS	threonyl-tRNA synthetase	1.65E-32	Yes	No	No	Yes	No	Yes	Yes
400	ARL1	ADP-ribosylation factor-like 1	1.68E-32	No	No	Yes	No	No	Yes	No
8295	TRRAP	transformation/transcription domain-associated protein	2.27E-32	No	No	Yes	No	No	No	No
8364	HIST1H4C	histone cluster 1, H4c	1.39E-31	NA*	Yes	Yes	No	No	Yes	No
92797	HELB	helicase (DNA) B	3.56E-31	Yes	No	No	Yes	No	Yes	No
7419	VDAC3	voltage-dependent anion channel 3	1.50E-30	No	No	Yes	No	No	No	No
5106	PCK2	phosphoenolpyruvate carboxykinase 2 (mitochondrial)	4.84E-30	Yes	Yes	No	Yes	No	No	No
1105	CHD1	chromodomain helicase DNA binding protein 1	5.12E-30	Yes	Yes	Yes	No	No	No	No
8417	STX7	syntaxin 7	5.16E-30	No	No	Yes	No	No	Yes	No
79798	ARMCS	armadillo repeat containing 5	9.42E-30	No	No	Yes	No	No	Yes	No
9739	SETD1A	SET domain containing 1A	1.08E-29	No	No	Yes	No	No	Yes	No
127255	LRRIQ3	leucine-rich repeats and IQ motif containing 3	1.84E-29	Yes	Yes	Yes	No	No	Yes	No
7867	MAPKAPK3	mitogen-activated protein kinase-activated protein kinase 3	2.01E-29	Yes	No	No	Yes	No	Yes	Yes
1154	CISH	cytokine inducible SH2-containing protein	2.01E-29	Yes	No	No	Yes	No	Yes	No
7525	YES1	y-yes-1 Yamaguchi sarcoma viral oncogene homolog 1	2.49E-29	Yes	No	Yes	No	No	Yes	No
6605	SMARCE1	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily e, member 1	4.92E-29	No	No	Yes	No	No	Yes	No
6571	SLC18A2	solute carrier family 18 (vesicular monoamine), member 2	5.16E-29	No	No	Yes	No	No	No	No
3758	KCNJ1	potassium inwardly-rectifying channel, subfamily J, member 1	5.84E-29	No	No	Yes	No	No	Yes	No
3646	EIF3E	eukaryotic translation initiation factor 3, subunit E	1.55E-28	No	No	Yes	No	No	Yes	Yes
6138	RPL15	ribosomal protein L15	7.27E-28	Yes	No	No	Yes	No	Yes	No
6887	TAL2	T-cell acute lymphocytic leukemia 2	1.09E-27	Yes	No	Yes	No	No	Yes	No
147798	TMC4	transmembrane channel-like 4	1.36E-27	No	No	No	Yes	No	No	No
6730	SRP68	signal recognition particle 68kDa	4.00E-27	No	No	Yes	No	No	No	No
604	BCL6	B-cell CLL/lymphoma 6 (zinc finger protein 51)	4.13E-27	No	No	Yes	No	No	Yes	No
124626	ZBPB2	zona pellucida binding protein 2	2.51E-26	No	No	No	Yes	No	No	No
22806	IKZF3	IKAROS family zinc finger 3 (Aiolos)	2.51E-26	No	No	Yes	No	No	No	No
7551	ZNF3	zinc finger protein 3	3.12E-26	Yes	No	Yes	No	No	Yes	Yes
10980	COPS6	COP9 constitutive photomorphogenic homolog subunit 6 (<i>Arabidopsis</i>)	3.12E-26	No	No	Yes	No	No	Yes	No
10614	HEXIM1	hexamethylene bis-acetamide inducible 1	8.91E-26	Yes	No	Yes	No	No	Yes	Yes
1106	CHD2	chromodomain helicase DNA binding protein 2	5.29E-25	Yes	Yes	Yes	No	No	No	No

969	CD69	CD69 molecule	8.25E-25	Yes	No	Yes	No	No	Yes	Yes
9019	MPZL1	myelin protein zero-like 1	1.46E-24	No	Yes	Yes	No	No	Yes	No
143684	FAM76B	family with sequence similarity 76, member B	2.16E-24	No	No	No	No	Yes	Yes	No
9702	CEP57	centrosomal protein 57kDa	2.16E-24	No	No	Yes	No	No	Yes	No
10957	PNRC1	proline-rich nuclear receptor coactivator 1	3.22E-24	Yes	No	No	Yes	No	Yes	Yes
10469	TIMM44	translocase of inner mitochondrial membrane 44 homolog (yeast)	7.48E-24	No	No	Yes	No	No	Yes	No
115426	UHRF2	ubiquitin-like, containing PHD and RING finger domains, 2	8.52E-24	No	No	No	Yes	No	Yes	No
54883	CDC49	coiled-coil domain containing 49	1.10E-23	No	No	No	Yes	No	Yes	No
1122	CHML	choroideremia-like (Rab escort protein 2)	1.18E-23	Yes	Yes	Yes	No	No	Yes	Yes
8357	HIST1H3H	histone cluster 1, H3h	1.45E-23	No	No	Yes	No	No	No	No
202	AIM1	absent in melanoma 1	1.52E-23	No	No	No	Yes	No	Yes	No
8835	SOCS2	suppressor of cytokine signaling 2	2.26E-23	No	No	No	Yes	No	Yes	No
6774	STAT3	signal transducer and activator of transcription 3 (acute-phase response factor)	4.06E-23	Yes	No	Yes	No	No	Yes	Yes
9924	PAN2	PAN2 polyA specific ribonuclease subunit homolog (S. cerevisiae)	4.11E-23	No	No	Yes	No	No	Yes	No
80146	UXS1	UDP-glucuronate decarboxylase 1	4.12E-23	Yes	No	Yes	No	No	Yes	No
51465	UBE2J1	ubiquitin-conjugating enzyme E2, J1 (UBC6 homolog, yeast)	4.20E-23	No	No	Yes	No	No	No	No
25973	PARS2	prolyl-tRNA synthetase 2, mitochondrial (putative)	4.41E-23	No	No	Yes	No	No	Yes	No
196743	PAOX	polyamine oxidase (exo-N4-amino)	8.76E-23	Yes	Yes	Yes	No	No	No	No
57003	CDC47	coiled-coil domain containing 47	9.64E-23	No	No	Yes	No	No	No	No
11325	DDX42	DEAD (Asp-Glu-Ala-Asp) box polypeptide 42	9.64E-23	No	No	Yes	No	No	No	No
26994	RNF11	ring finger protein 11	1.40E-22	Yes	No	No	Yes	No	Yes	Yes
9962	SLC23A2	solute carrier family 23 (nucleobase transporters), member 2	2.01E-22	No	No	Yes	No	No	No	No
3184	HNRNPD	heterogeneous nuclear ribonucleoprotein D (AU-rich element RNA binding protein 1, 37kDa)	3.98E-22	No	No	Yes	No	No	Yes	No
9844	ELMO1	engulfment and cell motility 1	5.46E-22	No	No	Yes	No	No	No	No
6433	SFRS8	splicing factor, arginine/serine-rich 8 (suppressor-of-white-apricot homolog, Drosophila)	7.81E-22	No	No	Yes	No	No	Yes	No
399	RHOH	ras homolog gene family, member H	7.84E-22	No	No	No	Yes	No	Yes	No
6626	SNRPA	small nuclear ribonucleoprotein polypeptide A	7.86E-22	No	No	Yes	No	No	No	No
1606	DGKA	diacylglycerol kinase, alpha 80kDa	9.29E-22	Yes	No	No	Yes	No	No	No
84305	WIBG	within bgcn homolog (Drosophila)	9.29E-22	No	No	Yes	No	No	Yes	No
501	ALDH7A1	aldehyde dehydrogenase 7 family, member A1	9.96E-22	No	No	Yes	No	No	No	No
60560	MAK10	MAK10 homolog, amino-acid N-acetyltransferase subunit (S. cerevisiae)	1.00E-21	No	No	Yes	No	No	Yes	No
23077	MYCBP2	MYC binding protein 2	1.00E-21	Yes	No	Yes	No	No	No	No
160365	CLECL1	C-type lectin-like 1	1.07E-21	Yes	No	Yes	No	No	No	No
57007	CXCR7	chemokine (C-X-C motif) receptor 7	1.20E-21	No	No	No	Yes	No	No	No

55900	ZNF302	zinc finger protein 302	1.35E-21	Yes	No	Yes	No	No	Yes	No
267	AMFR	autocrine motility factor receptor	1.59E-21	No	Yes	No	No	Yes	No	No
84128	WDR75	WD repeat domain 75	1.99E-21	No	No	Yes	No	No	Yes	No
8365	HIST1H4H	histone cluster 1, H4h	2.44E-21	No	Yes	Yes	No	No	Yes	No
2867	FFAR2	free fatty acid receptor 2	3.58E-21	No	No	Yes	No	No	No	No
8564	KMO	kynurenine 3-monooxygenase (kynurenine 3-hydroxylase)	7.34E-21	Yes	No	Yes	No	No	Yes	Yes
7625	ZNF74	zinc finger protein 74	8.58E-21	No	No	No	Yes	No	Yes	No
51762	RAB8B	RAB8B, member RAS oncogene family	1.09E-20	No	No	Yes	No	No	No	No
7903	ST6SIA4	ST6 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 4	1.32E-20	No	No	Yes	No	No	Yes	No
942	CD86	CD86 molecule	1.35E-20	No	No	No	Yes	No	No	No
8793	TNFRSF10D	tumor necrosis factor receptor superfamily, member 10d, decoy with truncated death domain	1.46E-20	Yes	No	No	Yes	No	No	No
7110	TMF1	TATA element modulatory factor 1	1.67E-20	No	No	Yes	No	No	Yes	No
11180	WDR6	WD repeat domain 6	2.59E-20	Yes	No	No	Yes	No	Yes	No
113201	CASC4	cancer susceptibility candidate 4	2.77E-20	Yes	No	No	No	No	Yes	No
79188	TMEM43	transmembrane protein 43	3.01E-20	Yes	No	No	Yes	No	No	No
131474	CHCHD4	coiled-coil-helix-coiled-coil-helix domain containing 4	3.01E-20	No	No	No	Yes	No	No	No
10923	SUB1	SUB1 homolog (S. cerevisiae)	3.87E-20	Yes	Yes	Yes	No	No	Yes	Yes
29780	PARVB	parvin, beta	4.92E-20	Yes	Yes	No	Yes	No	No	No
3183	HNRNPC	heterogeneous nuclear ribonucleoprotein C (C1/C2)	4.97E-20	No	No	Yes	No	No	No	No
103	ADAR	adenosine deaminase, RNA-specific	5.30E-20	No	No	Yes	No	No	No	No
10724	MGEA5	meningioma expressed antigen 5 (hyaluronidase)	6.15E-20	No	No	Yes	No	No	Yes	No
284346	ZNF575	zinc finger protein 575	6.64E-20	Yes	Yes	Yes	No	No	Yes	No
23474	ETHE1	ethylmalonic encephalopathy 1	6.64E-20	Yes	Yes	Yes	No	No	No	No
7770	ZNF227	zinc finger protein 227	7.18E-20	Yes	No	No	Yes	No	No	No
5869	RAB5B	RAB5B, member RAS oncogene family	8.31E-20	No	No	Yes	No	No	No	No
54797	MED18	mediator complex subunit 18	9.14E-20	No	No	Yes	No	No	Yes	No
10300	KATNB1	katanin p80 (WD repeat containing) subunit B 1	1.10E-19	No	No	Yes	No	No	No	No
92906	HNRPLL	heterogeneous nuclear ribonucleoprotein L-like	1.14E-19	No	No	No	Yes	No	No	No
5128	PCTK2	PCTAIRE protein kinase 2	1.17E-19	No	No	Yes	No	No	Yes	No
57561	ARRDC3	arrestin domain containing 3	1.33E-19	Yes	No	Yes	No	No	Yes	No
7248	TSC1	tuberous sclerosis 1	2.04E-19	No	No	Yes	No	No	No	No
5013	OTX1	orthodenticle homeobox 1	2.62E-19	No	No	Yes	No	No	Yes	No
23660	ZKSCAN5	zinc finger with KRAB and SCAN domains 5	3.33E-19	No	No	Yes	No	No	Yes	No
29896	TRA2A	transformer-2 alpha	3.40E-19	No	No	Yes	No	No	Yes	No

7073	TIAL1	TIA1 cytotoxic granule-associated RNA binding protein-like 1	5.54E-19	No	No	No	Yes	No	No	No
2027	ENO3	enolase 3 (beta, muscle)	8.67E-19	No	No	No	Yes	No	Yes	No
5216	PFN1	profilin 1	8.67E-19	No	No	No	Yes	No	Yes	No
283416	C12orf61	chromosome 12 open reading frame 61	1.31E-18	No	No	No	No	No	Yes	No
283237	TTC9C	tetratricopeptide repeat domain 9C	1.47E-18	Yes	No	No	Yes	No	No	No
64710	NUCKS1	nuclear casein kinase and cyclin-dependent kinase substrate 1	1.48E-18	No	Yes	Yes	No	No	Yes	No
161742	SPRED1	sprouty-related, EVH1 domain containing 1	1.49E-18	No	No	No	Yes	No	No	No
51537	MTP18	mitochondrial protein 18 kDa	1.60E-18	No	No	Yes	No	No	Yes	No
1968	EIF2S3	eukaryotic translation initiation factor 2, subunit 3 gamma, 52kDa	1.67E-18	No	No	Yes	No	No	Yes	No
3603	IL16	interleukin 16 (lymphocyte chemoattractant factor)	1.73E-18	Yes	No	Yes	No	No	No	No
28232	SLCO3A1	solute carrier organic anion transporter family, member 3A1	1.85E-18	No	Yes	No	Yes	No	No	No
7314	UBB	ubiquitin B	1.93E-18	No	No	Yes	No	No	Yes	No
65008	MRPL1	mitochondrial ribosomal protein L1	2.02E-18	No	No	Yes	No	No	Yes	No
51167	CYB5R4	cytochrome b5 reductase 4	2.55E-18	No	No	Yes	No	No	Yes	No
378	ARF4	ADP-ribosylation factor 4	2.56E-18	No	No	Yes	No	No	No	No
55133	SRBD1	S1 RNA binding domain 1	3.51E-18	No	No	Yes	No	No	Yes	No
64288	ZNF323	zinc finger protein 323	3.92E-18	Yes	No	No	Yes	No	No	No
23283	CSTF2T	cleavage stimulation factor, 3' pre-RNA, subunit 2, 64kDa, tau variant	4.16E-18	No	Yes	Yes	No	No	Yes	No
54737	MPHOSPH8	M-phase phosphoprotein 8	4.78E-18	Yes	No	Yes	No	No	Yes	No
2931	GSK3A	glycogen synthase kinase 3 alpha	4.98E-18	No	No	No	Yes	No	Yes	No
55114	ARHGAP17	Rho GTPase activating protein 17	5.11E-18	No	No	Yes	No	No	No	No
10261	IGSF6	immunoglobulin superfamily, member 6	5.53E-18	No	No	Yes	No	No	No	No
7917	BAT3	HLA-B associated transcript 3	5.53E-18	No	No	Yes	No	No	Yes	No
55937	APOM	apolipoprotein M	5.53E-18	No	No	Yes	No	No	No	No
931	MSA1	membrane-spanning 4-domains, subfamily A, member 1	8.03E-18	No	No	No	No	No	Yes	No
8994	LIMD1	LIM domains containing 1	8.55E-18	Yes	Yes	No	Yes	No	No	No
6641	SNTB1	syntrophin, beta 1 (dystrophin-associated protein A1, 59kDa, basic component 1)	8.89E-18	Yes	No	Yes	No	No	No	No
56478	EIF4ENIF1	eukaryotic translation initiation factor 4E nuclear import factor 1	9.66E-18	No	No	Yes	No	No	Yes	No
9814	SFI1	Sfi1 homolog, spindle assembly associated (yeast)	9.66E-18	No	No	No	Yes	No	No	No
4076	CAPRIN1	cell cycle associated protein 1	1.11E-17	No	No	No	Yes	No	No	No
51279	C1RL	complement component 1, r subcomponent-like	1.20E-17	No	No	No	Yes	No	Yes	No
10472	ZNF238	zinc finger protein 238	1.40E-17	Yes	No	Yes	No	No	Yes	Yes
3021	H3F3B	H3 histone, family 3B (H3.3B)	1.81E-17	No	No	Yes	No	No	Yes	No
55608	ANKRD10	ankyrin repeat domain 10	1.82E-17	Yes	No	No	Yes	No	Yes	No

27004	TCL6	T-cell leukemia/lymphoma 6	1.87E-17	No	Yes	No	Yes	No	Yes	No
5788	PTPRC	protein tyrosine phosphatase, receptor type, C	2.12E-17	No	No	Yes	No	No	No	No
51714	SELT	selenoprotein T	2.14E-17	No	No	No	Yes	No	No	No
9824	ARHGAP11A	Rho GTPase activating protein 11A	2.14E-17	No	No	Yes	No	No	Yes	No
2271	FH	fumarate hydratase	2.21E-17	No	No	Yes	No	No	Yes	No
9197	SLC33A1	solute carrier family 33 (acetyl-CoA transporter), member 1	2.41E-17	No	No	No	Yes	No	Yes	No
263512	SLC25A30	solute carrier family 25, member 30	2.41E-17	Yes	Yes	Yes	No	No	No	No
7163	TPD52	tumor protein D52	2.42E-17	No	Yes	Yes	No	No	No	No
5074	PAWR	PRKC, apoptosis, WT1, regulator	3.31E-17	No	No	Yes	No	No	Yes	No
7266	DNAJC7	DnaJ (Hsp40) homolog, subfamily C, member 7	3.38E-17	No	No	No	Yes	No	Yes	No
28511	NKIRAS2	NFKB inhibitor interacting Ras-like 2	3.38E-17	No	No	No	Yes	No	Yes	No
7862	BRPF1	bromodomain and PHD finger containing, 1	3.96E-17	No	No	No	Yes	No	Yes	No
55016	MARCH1	membrane-associated ring finger (C3HC4) 1	5.17E-17	NA	No	Yes	No	No	No	No
3006	HIST1H1C	histone cluster 1, H1c	5.24E-17	No	No	Yes	No	No	No	No
4033	LRMP	lymphoid-restricted membrane protein	5.57E-17	No	Yes	Yes	No	No	No	No
2495	FBX1	ferritin, heavy polypeptide 1	5.59E-17	Yes	No	No	Yes	No	Yes	Yes
7316	UBC	ubiquitin C	5.84E-17	No	No	Yes	No	No	Yes	No
92922	CCDC102A	coiled-coil domain containing 102A	6.37E-17	No	Yes	No	No	No	Yes	No
221188	GPR114	G protein-coupled receptor 114	6.37E-17	No	No	No	Yes	No	No	No
26000	TBC1D10B	TBC1 domain family, member 10B	6.73E-17	Yes	No	No	Yes	No	No	No
3899	AFF3	AF4/FMR2 family, member 3	7.07E-17	Yes	No	No	Yes	No	Yes	No
23253	ANKRD12	ankyrin repeat domain 12	7.39E-17	Yes	No	Yes	No	No	No	No
117289	TAGAP	T-cell activation RhoGTPase activating protein	7.58E-17	No	No	Yes	No	No	No	No
5195	PEX14	peroxisomal biogenesis factor 14	9.23E-17	No	No	Yes	No	No	Yes	No
1676	DFFA	DNA fragmentation factor, 45kDa, alpha polypeptide	9.23E-17	No	No	Yes	No	No	No	No
80777	CYB5B	cytochrome b5 type B (outer mitochondrial membrane)	1.01E-16	No	No	No	Yes	No	Yes	No
64805	P2RY12	purinergic receptor P2Y, G-protein coupled, 12	1.01E-16	No	Yes	No	Yes	No	No	No
5451	POU2F1	POU class 2 homeobox 1	1.02E-16	No	No	Yes	No	No	No	No
7762	ZNF215	zinc finger protein 215	1.02E-16	No	No	Yes	No	No	Yes	No
114034	TOE1	target of EGR1, member 1 (nuclear)	1.09E-16	No	No	No	No	Yes	No	No
3658	IREB2	iron-responsive element binding protein 2	1.09E-16	Yes	No	Yes	No	No	Yes	No
7391	USF1	upstream transcription factor 1	1.14E-16	No	No	No	Yes	No	Yes	No
56548	CHST7	carbohydrate (N-acetylglucosamine 6-O) sulfotransferase 7	1.18E-16	Yes	No	Yes	No	No	Yes	No
64783	RBM15	RNA binding motif protein 15	1.34E-16	No	No	Yes	No	No	No	No

2870	GRK6	G protein-coupled receptor kinase 6	1.35E-16	Yes	No	No	Yes	No	No	No
65080	MRPL44	mitochondrial ribosomal protein L44	1.58E-16	No	No	No	Yes	No	Yes	No
51669	TMEM66	transmembrane protein 66	1.69E-16	Yes	No	No	Yes	No	Yes	Yes
11163	NUDT4	nudix (nucleoside diphosphate linked moiety X)-type motif 4	1.90E-16	Yes	Yes	Yes	No	No	No	No
2959	GTF2B	general transcription factor IIB	1.97E-16	No	No	Yes	No	No	Yes	No
6668	SP2	Sp2 transcription factor	2.09E-16	No	Yes	No	No	No	No	No
8343	HIST1H2BF	histone cluster 1, H2bf	2.19E-16	Yes	No	Yes	No	No	No	No
3013	HIST1H2AD	histone cluster 1, H2ad	2.19E-16	No	No	Yes	No	No	No	No
11165	NUDT3	nudix (nucleoside diphosphate linked moiety X)-type motif 3	2.28E-16	No	No	Yes	No	No	No	No
26092	TOR1AIP1	tor1A interacting protein 1	2.31E-16	Yes	Yes	Yes	No	No	Yes	Yes
1520	CTSS	cathepsin S	2.43E-16	Yes	No	Yes	No	No	No	No
7185	TRAF1	TNF receptor-associated factor 1	2.45E-16	No	No	Yes	No	No	Yes	No
29928	TIMM22	translocase of inner mitochondrial membrane 22 homolog (yeast)	2.60E-16	No	No	No	Yes	No	Yes	No
64859	OBFC2A	oligonucleotide/oligosaccharide-binding fold containing 2A	2.64E-16	Yes	No	No	Yes	No	Yes	No
79668	PARP8	poly (ADP-ribose) polymerase family, member 8	2.78E-16	No	No	Yes	No	No	Yes	No
30844	EHD4	EH-domain containing 4	2.79E-16	No	Yes	Yes	No	No	No	No
56261	RP5-1022P6.2	hypothetical protein KIAA1434	2.79E-16	No	No	Yes	No	No	Yes	No
10308	ZNF267	zinc finger protein 267	2.82E-16	No	No	No	Yes	No	No	No
55233	MOBK1B	MOB1, Mps One Binder kinase activator-like 1B (yeast)	3.17E-16	No	No	No	Yes	No	No	No
79831	JMJD5	jumonji domain containing 5	3.24E-16	No	Yes	Yes	No	No	No	No
64332	NFKBIZ	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, zeta	3.81E-16	Yes	No	Yes	No	No	No	No
8464	SUPT3H	suppressor of Ty 3 homolog (S. cerevisiae)	3.98E-16	Yes	No	Yes	No	No	Yes	No
1058	CENPA	centromere protein A	4.49E-16	No	No	Yes	No	No	Yes	No
3399	ID3	inhibitor of DNA binding 3, dominant negative helix-loop-helix protein	4.53E-16	Yes	No	Yes	No	No	Yes	Yes
91523	FAM113B	family with sequence similarity 113, member B	4.58E-16	Yes	No	Yes	No	No	Yes	No
55766	H2AFJ	H2A histone family, member J	4.85E-16	No	No	Yes	No	No	No	No
121504	HIST4H4	histone cluster 4, H4	4.85E-16	NA*	Yes	Yes	No	No	Yes	No
57507	ZNF608	zinc finger protein 608	5.40E-16	No	Yes	Yes	No	No	Yes	No
196528	ARID2	AT rich interactive domain 2 (ARID, RFX-like)	5.62E-16	No	No	Yes	No	No	No	No
54495	TXNDC10	thioredoxin domain containing 10	5.63E-16	No	No	Yes	No	No	Yes	No
85364	ZCCHC3	zinc finger, CCHC domain containing 3	5.68E-16	Yes	No	Yes	No	No	Yes	No
92335	LYK5	protein kinase LYK5	5.98E-16	No	No	No	No	No	Yes	No
7710	ZNF154	zinc finger protein 154	6.46E-16	Yes	No	Yes	No	No	Yes	Yes
3782	KCNN3	potassium intermediate/small conductance calcium-activated channel, subfamily N, member 3	6.84E-16	No	No	No	Yes	No	No	No

7329	UBE2I	ubiquitin-conjugating enzyme E2I (UBC9 homolog, yeast)	6.90E-16	Yes	No	Yes	No	No	Yes	No
57620	STIM2	stromal interaction molecule 2	7.69E-16	No	No	Yes	No	No	Yes	No
817	CAMK2D	calcium/calmodulin-dependent protein kinase (CaM kinase) II delta	8.01E-16	Yes	No	Yes	No	No	No	No
123263	MTFMT	mitochondrial methionyl-tRNA formyltransferase	8.43E-16	No	No	Yes	No	No	No	No
132158	GLYCTK	glycerate kinase	9.04E-16	No	Yes	Yes	No	No	No	No
2595	GANC	glucosidase, alpha; neutral C	9.10E-16	Yes	No	Yes	No	No	Yes	No
26019	UPF2	UPF2 regulator of nonsense transcripts homolog (yeast)	9.55E-16	Yes	No	Yes	No	No	No	No
8405	SPOP	speckle-type POZ protein	1.01E-15	Yes	No	No	Yes	No	No	No
8604	SLC25A12	solute carrier family 25 (mitochondrial carrier, Aralar), member 12	1.02E-15	No	No	Yes	No	No	No	No
124961	ZFP3	zinc finger protein 3 homolog (mouse)	1.02E-15	No	No	No	Yes	No	Yes	No
81552	ECOP	EGFR-coamplified and overexpressed protein	1.16E-15	No	No	Yes	No	No	No	No
90324	CCDC97	coiled-coil domain containing 97	1.18E-15	Yes	No	Yes	No	No	Yes	No
3359	HTR3A	5-hydroxytryptamine (serotonin) receptor 3A	1.19E-15	No	Yes	Yes	No	No	No	No
55860	ACTR10	actin-related protein 10 homolog (S. cerevisiae)	1.21E-15	No	No	Yes	No	No	No	No
157680	VPS13B	vacuolar protein sorting 13 homolog B (yeast)	1.22E-15	Yes	No	Yes	No	No	No	No
4920	ROR2	receptor tyrosine kinase-like orphan receptor 2	1.29E-15	Yes	No	Yes	No	No	No	No
55854	ZC3H15	zinc finger CCCH-type containing 15	1.31E-15	No	No	No	No	Yes	Yes	No
201799	TMEM154	transmembrane protein 154	1.34E-15	Yes	No	Yes	No	No	No	No
22929	SEPHS1	selenophosphate synthetase 1	1.41E-15	No	No	Yes	No	No	No	No
7799	PRDM2	PR domain containing 2, with ZNF domain	1.42E-15	Yes	No	Yes	No	No	No	No
54948	MRPL16	mitochondrial ribosomal protein L16	1.48E-15	No	No	Yes	No	No	No	No
5709	PSMD3	proteasome (prosome, macropain) 26S subunit, non-ATPase, 3	1.75E-15	No	No	Yes	No	No	No	No
7993	UBXD6	UBX domain containing 6	1.96E-15	No	No	Yes	No	No	Yes	No
9839	ZEB2	zinc finger E-box binding homeobox 2	1.99E-15	Yes	No	No	Yes	No	Yes	No
8115	TCL1A	T-cell leukemia/lymphoma 1A	2.03E-15	No	No	No	Yes	No	No	No
3394	IRF8	interferon regulatory factor 8	2.26E-15	No	No	Yes	No	No	No	No
533	ATP6V0B	ATPase, H+ transporting, lysosomal 21kDa, V0 subunit b	2.36E-15	No	No	No	Yes	No	Yes	Yes
8337	HIST2H2AA3	histone cluster 2, H2aa3	2.36E-15	Yes	No	No	Yes	No	Yes	Yes
10961	ERP29	endoplasmic reticulum protein 29	2.39E-15	Yes	No	Yes	No	No	Yes	No
23180	RFTN1	raftlin, lipid raft linker 1	2.53E-15	No	Yes	Yes	No	No	Yes	No
84064	HDHD2	haloacid dehalogenase-like hydrolase domain containing 2	2.54E-15	No	No	Yes	No	No	Yes	No
3983	ABLIM1	actin binding LIM protein 1	2.56E-15	No	No	No	Yes	No	No	No
10096	ACTR3	ARP3 actin-related protein 3 homolog (yeast)	3.11E-15	No	No	Yes	No	No	Yes	No
26520	TIMM9	translocase of inner mitochondrial membrane 9 homolog (yeast)	3.25E-15	No	No	Yes	No	No	Yes	No

10695	CNPY3	canopy 3 homolog (zebrafish)	3.90E-15	Yes	No	No	No	Yes	No	No
9026	HIP1R	huntingtin interacting protein 1 related	3.96E-15	No	No	No	Yes	No	No	No
8535	CBX4	chromobox homolog 4 (Pc class homolog, Drosophila)	4.24E-15	No	No	Yes	No	No	No	No
83931	STK40	serine/threonine kinase 40	4.65E-15	No	No	No	Yes	No	No	No
6651	SON	SON DNA binding protein	4.76E-15	No	No	Yes	No	No	Yes	No
26985	AP3M1	adaptor-related protein complex 3, mu 1 subunit	4.76E-15	Yes	No	No	Yes	No	No	No
26137	ZBTB20	zinc finger and BTB domain containing 20	4.82E-15	Yes	No	Yes	No	No	Yes	No
2885	GRB2	growth factor receptor-bound protein 2	5.41E-15	No	No	Yes	No	No	Yes	No
54522	ANKRD16	ankyrin repeat domain 16	5.51E-15	Yes	No	Yes	No	No	No	No
84285	EIF1AD	eukaryotic translation initiation factor 1A domain containing	5.58E-15	Yes	No	No	No	Yes	Yes	No
121268	RHEBL1	Ras homolog enriched in brain like 1	6.31E-15	Yes	No	Yes	No	No	Yes	No
8367	HIST1H4E	histone cluster 1, H4e	6.36E-15	No	Yes	Yes	No	No	Yes	No
50801	KCNK4	potassium channel, subfamily K, member 4	7.04E-15	No	No	Yes	No	No	No	No
6856	SYPL1	synaptophysin-like 1	8.74E-15	No	No	Yes	No	No	Yes	No
23295	MGRN1	mahogunin, ring finger 1	9.43E-15	No	No	Yes	No	No	No	No
124402	FAM100A	family with sequence similarity 100, member A	9.43E-15	No	No	Yes	No	No	No	No
10456	HAX1	HCLS1 associated protein X-1	9.88E-15	No	No	No	Yes	No	Yes	No
8473	OGT	O-linked N-acetylglucosamine (GlcNAc) transferase (UDP-N-acetylglucosamine:polypeptide-N-acetylglucosaminyl transferase)	9.97E-15	No	No	Yes	No	No	No	No
53916	RAB4B	RAB4B, member RAS oncogene family	1.00E-14	No	No	Yes	No	No	Yes	Yes
6432	SFRS7	splicing factor, arginine/serine-rich 7, 35kDa	1.03E-14	Yes	No	No	Yes	No	Yes	No
7782	SLC30A4	solute carrier family 30 (zinc transporter), member 4	1.11E-14	No	Yes	Yes	No	No	No	No
4026	LPP	LIM domain containing preferred translocation partner in lipoma	1.13E-14	No	Yes	Yes	No	No	No	No
25820	ARIH1	ariadne homolog, ubiquitin-conjugating enzyme E2 binding protein, 1 (Drosophila)	1.27E-14	Yes	No	No	Yes	No	No	No
23635	SSBP2	single-stranded DNA binding protein 2	1.33E-14	No	Yes	No	Yes	No	No	No
901	CCNG2	cyclin G2	1.46E-14	No	Yes	Yes	No	No	No	No
1997	ELF1	E74-like factor 1 (ets domain transcription factor)	1.46E-14	No	No	Yes	No	No	No	No
57565	KLHL14	kelch-like 14 (Drosophila)	1.48E-14	No	No	Yes	No	No	Yes	No
29982	NRBF2	nuclear receptor binding factor 2	1.59E-14	No	No	Yes	No	No	No	No
9230	RAB11B	RAB11B, member RAS oncogene family	1.69E-14	No	Yes	Yes	No	No	No	No
64172	OSGEPL1	O-sialoglycoprotein endopeptidase-like 1	1.70E-14	Yes	Yes	Yes	No	No	No	No
5334	PLCL1	phospholipase C-like 1	1.81E-14	No	No	Yes	No	No	No	No
9583	ENTPD4	ectonucleoside triphosphate diphosphohydrolase 4	1.81E-14	No	Yes	Yes	No	No	No	No
54868	TMEM104	transmembrane protein 104	1.96E-14	Yes	No	No	Yes	No	No	No
28951	TRIB2	tribbles homolog 2 (Drosophila)	1.97E-14	No	No	Yes	No	No	No	No

5026	P2RX5	purinergic receptor P2X, ligand-gated ion channel, 5	2.08E-14	No	No	No	Yes	No	No	No
594	BCKDHB	branched chain keto acid dehydrogenase E1, beta polypeptide (maple syrup urine disease)	2.12E-14	No	No	Yes	No	No	No	No
669	BPGM	2,3-bisphosphoglycerate mutase	2.25E-14	Yes	Yes	Yes	No	No	Yes	Yes
1407	CRY1	cryptochrome 1 (photolyase-like)	2.32E-14	Yes	No	Yes	No	No	No	No
57592	ZNF687	zinc finger protein 687	2.34E-14	No	No	Yes	No	No	Yes	No
10109	ARPC2	actin related protein 2/3 complex, subunit 2, 34kDa	2.36E-14	No	No	Yes	No	No	Yes	No
7536	SF1	splicing factor 1	2.38E-14	No	No	Yes	No	No	No	No
7456	WIPF1	WAS/WASL interacting protein family, member 1	2.42E-14	No	Yes	Yes	No	No	No	No
8726	EED	embryonic ectoderm development	2.49E-14	No	No	Yes	No	No	Yes	No
3007	HIST1H1D	histone cluster 1, H1d	2.59E-14	No	No	Yes	No	No	Yes	No
8361	HIST1H4F	histone cluster 1, H4f	2.59E-14	NA*	Yes	Yes	No	No	No	No
79074	C2orf49	chromosome 2 open reading frame 49	2.80E-14	No	No	Yes	No	No	Yes	No
9392	TGFBRAP1	transforming growth factor, beta receptor associated protein 1	2.80E-14	No	No	Yes	No	No	No	No
2161	F12	coagulation factor XII (Hageman factor)	2.97E-14	No	No	No	Yes	No	No	No
10474	TADA3L	transcriptional adaptor 3 (NGG1 homolog, yeast)-like	3.32E-14	No	No	Yes	No	No	No	No
7357	UGCG	UDP-glucose ceramide glucosyltransferase	3.40E-14	No	No	Yes	No	No	No	No
22868	FASTKD2	FAST kinase domains 2	3.72E-14	Yes	No	Yes	No	No	Yes	No
130752	MDH1B	malate dehydrogenase 1B, NAD (soluble)	3.72E-14	No	No	Yes	No	No	Yes	No
84640	USP38	ubiquitin specific peptidase 38	4.15E-14	No	No	Yes	No	No	No	No
56818	JMJD1A	jumonji domain containing 1A	4.15E-14	No	No	Yes	No	No	Yes	No
10128	LRPPRC	leucine-rich PPR-motif containing	4.36E-14	Yes	Yes	Yes	No	No	Yes	No
55573	CDV3	CDV3 homolog (mouse)	4.40E-14	No	No	No	Yes	No	No	No
10972	TMED10	transmembrane emp24-like trafficking protein 10 (yeast)	4.41E-14	Yes	No	No	Yes	No	Yes	Yes
26271	FBXO5	F-box protein 5	4.78E-14	No	No	No	Yes	No	Yes	No
83417	FCRL4	Fc receptor-like 4	4.88E-14	Yes	No	No	Yes	No	Yes	No
10269	ZMPSTE24	zinc metalloproteinase (STE24 homolog, S. cerevisiae)	5.03E-14	No	No	No	Yes	No	No	No
4001	LMNB1	lamin B1	5.12E-14	No	No	Yes	No	No	Yes	No
8360	HIST1H4D	histone cluster 1, H4d	5.53E-14	No	Yes	No	Yes	No	No	No
8349	HIST2H2BE	histone cluster 2, H2be	6.01E-14	No	No	Yes	No	No	Yes	No
11066	U1SNRNPBP	U11/U12 snRNP 35K	6.42E-14	No	No	Yes	No	No	Yes	No
1235	CCR6	chemokine (C-C motif) receptor 6	7.72E-14	Yes	No	No	Yes	No	Yes	Yes
51643	TMBIM4	transmembrane BAX inhibitor motif containing 4	7.76E-14	Yes	No	Yes	No	No	No	No
31772	HIST2H2AB	histone cluster 2, H2ab	7.79E-14	NA	No	Yes	No	No	Yes	No
116236	LOC116236	hypothetical protein LOC116236	8.44E-14	Yes	No	No	Yes	No	Yes	No

1655	DDX5	DEAD (Asp-Glu-Ala-Asp) box polypeptide 5	8.82E-14	No	No	Yes	No	No	No	No
10769	PLK2	polo-like kinase 2 (Drosophila)	9.04E-14	No	No	Yes	No	No	No	No
4154	MBNL1	muscleblind-like (Drosophila)	1.01E-13	Yes	No	No	Yes	No	No	No
2033	EP300	E1A binding protein p300	1.02E-13	No	No	Yes	No	No	No	No
2123	EV12A	ecotropic viral integration site 2A	1.07E-13	Yes	No	Yes	No	No	No	No
2131	EXT1	exostosins (multiple) 1	1.11E-13	No	Yes	Yes	No	No	No	No
8348	HIST1H2BO	histone cluster 1, H2bo	1.16E-13	Yes	No	No	Yes	No	Yes	No
201456	FBXO15	F-box protein 15	1.23E-13	No	No	Yes	No	No	No	No
8332	HIST1H2AL	histone cluster 1, H2al	1.36E-13	NA	No	Yes	No	No	No	No
9595	PSCDBP	pleckstrin homology, Sec7 and coiled-coil domains, binding protein	1.36E-13	No	No	Yes	No	No	Yes	No
1628	DBP	D site of albumin promoter (albumin D-box) binding protein	1.42E-13	Yes	No	No	Yes	No	Yes	Yes
23019	CNOT1	CCR4-NOT transcription complex, subunit 1	1.48E-13	No	No	Yes	No	No	Yes	No
283349	RASSF3	Ras association (RalGDS/AF-6) domain family member 3	1.60E-13	NA	No	Yes	No	No	No	No
23534	TNPO3	transportin 3	1.61E-13	No	No	Yes	No	No	Yes	Yes
5927	JARID1A	jumonji, AT rich interactive domain 1A	1.65E-13	No	No	No	Yes	No	Yes	Yes
1802	DPH2	DPH2 homolog (S. cerevisiae)	1.71E-13	No	No	Yes	No	No	Yes	Yes
8344	HIST1H2BE	histone cluster 1, H2be	1.71E-13	Yes	No	Yes	No	No	Yes	No
7405	UVRAG	UV radiation resistance associated gene	1.76E-13	No	No	Yes	No	No	No	No
23418	CRB1	crumbs homolog 1 (Drosophila)	1.77E-13	No	No	Yes	No	No	No	No
9114	ATP6V0D1	ATPase, H+ transporting, lysosomal 38kDa, V0 subunit d1	1.82E-13	No	No	No	Yes	No	No	No
79031	PDCL3	phosducin-like 3	1.93E-13	No	No	No	Yes	No	No	No
972	CD74	CD74 molecule, major histocompatibility complex, class II invariant chain	1.93E-13	No	No	Yes	No	No	No	No
8335	HIST1H2AB	histone cluster 1, H2ab	1.94E-13	NA	No	Yes	No	No	Yes	No
51117	COQ4	coenzyme Q4 homolog (S. cerevisiae)	1.94E-13	No	No	Yes	No	No	Yes	No
7805	LAPTM5	lysosomal associated multispinning membrane protein 5	1.98E-13	No	No	Yes	No	No	No	No
10778	ZNF271	zinc finger protein 271	2.04E-13	No	No	No	Yes	No	Yes	No
9584	RBM39	RNA binding motif protein 39	2.09E-13	No	No	Yes	No	No	Yes	No
26057	ANKRD17	ankyrin repeat domain 17	2.10E-13	No	No	No	No	Yes	No	No
9776	HARBI1	harbinger transposase derived 1	2.14E-13	No	No	Yes	No	No	Yes	Yes
55589	BMP2K	BMP2 inducible kinase	2.14E-13	No	No	Yes	No	No	No	No
340146	SLC35D3	solute carrier family 35, member D3	2.15E-13	No	No	Yes	No	No	No	No
10766	TOB2	transducer of ERBB2, 2	2.19E-13	No	No	Yes	No	No	No	No
79694	MANEA	mannosidase, endo-alpha	2.19E-13	No	No	Yes	No	No	No	No
51340	CRNKL1	crooked neck pre-mRNA splicing factor-like 1 (Drosophila)	2.24E-13	No	No	Yes	No	No	No	No

3017	HIST1H2BD	histone cluster 1, H2bd	2.24E-13	Yes	No	Yes	No	No	Yes	No
9900	USP3	ubiquitin specific peptidase 3	2.35E-13	Yes	Yes	Yes	No	No	Yes	No
9882	TBC1D4	TBC1 domain family, member 4	2.35E-13	No	No	Yes	No	No	No	No
11100	HNRNPUL1	heterogeneous nuclear ribonucleoprotein U-like 1	2.39E-13	No	No	Yes	No	No	Yes	No
79718	TBL1XR1	transducin (beta)-like 1 X-linked receptor 1	2.40E-13	No	No	Yes	No	No	Yes	No
2744	GLS	glutaminase	2.51E-13	Yes	No	Yes	No	No	No	No
23325	KIAA1033	KIAA1033	2.56E-13	No	No	Yes	No	No	No	No
56884	FSTL5	folliculin-like 5	2.61E-13	No	No	Yes	No	No	No	No
1960	EGR3	early growth response 3	2.62E-13	Yes	No	No	Yes	No	Yes	Yes
4066	LYL1	lymphoblastic leukemia derived sequence 1	2.77E-13	Yes	No	No	Yes	No	Yes	Yes
6152	RPL24	ribosomal protein L24	2.77E-13	No	No	Yes	No	No	Yes	No
9450	LY86	lymphocyte antigen 86	2.78E-13	Yes	No	Yes	No	No	Yes	Yes
57826	RAP2C	RAP2C, member of RAS oncogene family	2.82E-13	No	No	Yes	No	No	No	No
2841	GPR18	G protein-coupled receptor 18	2.86E-13	No	No	Yes	No	No	No	No
84944	MAEL	maelstrom homolog (Drosophila)	2.87E-13	No	No	Yes	No	No	No	No
11337	GABARAP	GABA(A) receptor-associated protein	3.02E-13	No	No	Yes	No	No	Yes	No
6402	SELL	selectin L (lymphocyte adhesion molecule 1)	3.03E-13	Yes	No	No	Yes	No	No	No
10963	STIP1	stress-induced-phosphoprotein 1 (Hsp70/Hsp90-organizing protein)	3.88E-13	No	No	Yes	No	No	No	No
3669	ISG20	interferon stimulated exonuclease gene 20kDa	3.89E-13	No	No	No	Yes	No	No	No
55626	AMBRA1	autophagy/beclin-1 regulator 1	4.04E-13	Yes	No	No	Yes	No	Yes	No
5996	RGS1	regulator of G-protein signaling 1	4.31E-13	Yes	No	Yes	No	No	Yes	No
1859	DYRK1A	dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 1A	4.36E-13	No	No	Yes	No	No	No	No
65258	MPPE1	metallophosphoesterase 1	4.38E-13	No	No	Yes	No	No	No	No
23594	ORC6L	origin recognition complex, subunit 6 like (yeast)	4.39E-13	No	No	Yes	No	No	Yes	No
80854	SETD7	SET domain containing (lysine methyltransferase) 7	4.40E-13	No	No	No	No	Yes	Yes	No
126119	JOSD2	Josephin domain containing 2	4.60E-13	No	No	No	Yes	No	Yes	No
140691	TRIM69	tripartite motif-containing 69	4.63E-13	Yes	No	Yes	No	No	No	No
9214	FAIM3	Fas apoptotic inhibitory molecule 3	4.64E-13	Yes	No	No	Yes	No	Yes	Yes
2650	GCNT1	glucosaminyl (N-acetyl) transferase 1, core 2 (beta-1,6-N-acetylglucosaminyltransferase)	4.67E-13	No	No	Yes	No	No	Yes	No
11065	UBE2C	ubiquitin-conjugating enzyme E2C	4.83E-13	No	No	Yes	No	No	No	No
56926	NCLN	nicalin homolog (zebrafish)	4.99E-13	Yes	No	No	Yes	No	Yes	Yes
894	CCND2	cyclin D2	5.20E-13	Yes	Yes	No	Yes	No	Yes	Yes
3459	IFNGR1	interferon gamma receptor 1	5.41E-13	Yes	No	Yes	No	No	No	No
6434	SFRS10	splicing factor, arginine/serine-rich 10 (transformer 2 homolog, Drosophila)	5.80E-13	No	No	Yes	No	No	Yes	No

23412	COMMD3	COMM domain containing 3	5.81E-13	No	No	No	No	Yes	No	No
2017	CTTN	cortactin	5.84E-13	No	No	No	Yes	No	No	No
10627	MRCL3	myosin regulatory light chain MRCL3	5.88E-13	Yes	No	Yes	No	No	Yes	No
9086	EIF1AY	eukaryotic translation initiation factor 1A, Y-linked	6.19E-13	No	No	Yes	No	No	Yes	No
57082	CASC5	cancer susceptibility candidate 5	6.32E-13	No	No	Yes	No	No	No	No
84992	PIGY	phosphatidylinositol glycan anchor biosynthesis, class Y	6.36E-13	Yes	No	No	Yes	No	No	No
91949	COG7	component of oligomeric golgi complex 7	6.55E-13	Yes	No	No	Yes	No	No	No
80308	FLAD1	FAD1 flavin adenine dinucleotide synthetase homolog (S. cerevisiae)	6.56E-13	Yes	No	No	Yes	No	No	No
28227	PPP2R3B	protein phosphatase 2 (formerly 2A), regulatory subunit B', beta	6.64E-13	No	No	No	No	No	No	No
1314	COPA	coatamer protein complex, subunit alpha	6.84E-13	No	No	Yes	No	No	No	No
4194	MDM4	Mdm4 p53 binding protein homolog (mouse)	7.13E-13	No	No	Yes	No	No	No	No
6478	SIAH2	seven in absentia homolog 2 (Drosophila)	7.15E-13	No	No	No	Yes	No	Yes	No
3209	HOXA13	homeobox A13	7.27E-13	Yes	No	Yes	No	No	Yes	No
355	FAS	Fas (TNF receptor superfamily, member 6)	7.29E-13	No	No	Yes	No	No	No	No
120425	AMICA1	adhesion molecule, interacts with CXADR antigen 1	7.30E-13	No	No	No	Yes	No	No	No
131831	C3orf44	chromosome 3 open reading frame 44	7.65E-13	No	No	No	No	Yes	No	No
58528	RRAGD	Ras-related GTP binding D	7.67E-13	Yes	No	Yes	No	No	No	No
214	ALCAM	activated leukocyte cell adhesion molecule	7.85E-13	No	No	Yes	No	No	No	No
8318	CDC45L	CDC45 cell division cycle 45-like (S. cerevisiae)	8.42E-13	No	No	Yes	No	No	Yes	No
7353	UFD1L	ubiquitin fusion degradation 1 like (yeast)	8.42E-13	No	No	Yes	No	No	Yes	No
9552	SPAG7	sperm associated antigen 7	9.24E-13	No	No	No	Yes	No	No	No
84295	PHF6	PHD finger protein 6	9.42E-13	No	No	Yes	No	No	No	No
5294	PIK3CG	phosphoinositide-3-kinase, catalytic, gamma polypeptide	1.02E-12	No	Yes	Yes	No	No	Yes	No
6427	SFRS2	splicing factor, arginine/serine-rich 2	1.06E-12	No	Yes	Yes	No	No	No	No
79157	MFSD11	major facilitator superfamily domain containing 11	1.06E-12	No	No	No	No	Yes	No	No
6749	SSRP1	structure specific recognition protein 1	1.08E-12	No	No	Yes	No	No	No	No
5024	P2RX3	purinergic receptor P2X, ligand-gated ion channel, 3	1.08E-12	No	No	Yes	No	No	No	No
283578	TMED8	transmembrane emp24 protein transport domain containing 8	1.09E-12	No	No	Yes	No	No	No	No
55023	PHIP	pleckstrin homology domain interacting protein	1.09E-12	No	No	No	Yes	No	No	No
1385	CREB1	cAMP responsive element binding protein 1	1.11E-12	No	No	No	No	Yes	No	No
8676	STX11	syntaxin 11	1.19E-12	No	No	No	Yes	No	No	No
83752	LONP2	lon peptidase 2, peroxisomal	1.23E-12	Yes	Yes	Yes	No	No	Yes	No
79165	LENG1	leukocyte receptor cluster (LRC) member 1	1.23E-12	No	No	No	Yes	No	Yes	No
83879	CDCA7	cell division cycle associated 7	1.23E-12	No	Yes	Yes	No	No	Yes	No

3151	HMG2	high-mobility group nucleosomal binding domain 2	1.23E-12	No	No	No	Yes	No	Yes	Yes
607	BCL9	B-cell CLL/lymphoma 9	1.24E-12	No	No	Yes	No	No	No	No
23155	CLCC1	chloride channel CLIC-like 1	1.26E-12	No	No	Yes	No	No	No	No
90799	CCDC45	coiled-coil domain containing 45	1.27E-12	No	No	Yes	No	No	Yes	No
23231	KIAA0746	KIAA0746 protein	1.29E-12	No	Yes	Yes	No	No	No	No
55846	ITFG2	integrin alpha FG-GAP repeat containing 2	1.36E-12	Yes	No	Yes	No	No	No	No
10681	GNB5	guanine nucleotide binding protein (G protein), beta 5	1.45E-12	Yes	No	Yes	No	No	No	No
81873	ARPC5L	actin related protein 2/3 complex, subunit 5-like	1.50E-12	No	No	Yes	No	No	Yes	No
5880	RAC2	ras-related C3 botulinum toxin substrate 2 (rho family, small GTP binding protein Rac2)	1.54E-12	No	No	No	Yes	No	Yes	Yes
10983	CCNI	cyclin 1	1.55E-12	No	No	No	Yes	No	Yes	No
3953	LEPR	leptin receptor	1.57E-12	No	No	Yes	No	No	No	No
283209	PGM2L1	phosphoglucomutase 2-like 1	1.60E-12	Yes	Yes	Yes	No	No	Yes	No
9709	HERPUD1	homocysteine-inducible, endoplasmic reticulum stress-inducible, ubiquitin-like domain member 1	1.67E-12	No	No	Yes	No	No	No	No
9322	TRIP10	thyroid hormone receptor interactor 10	1.73E-12	No	No	Yes	No	No	No	No
79670	ZCCHC6	zinc finger, CCHC domain containing 6	1.79E-12	No	No	No	No	Yes	No	No
55033	FKBP14	FK506 binding protein 14, 22 kDa	1.89E-12	No	No	Yes	No	No	Yes	No
84725	PLEKHA8	pleckstrin homology domain containing, family A (phosphoinositide binding specific) member 8	1.89E-12	No	No	Yes	No	No	Yes	No
10787	NCKAP1	NCK-associated protein 1	1.91E-12	No	No	Yes	No	No	No	No
2483	FRG1	FSHD region gene 1	1.97E-12	No	No	No	Yes	No	No	No
51606	ATP6V1H	ATPase, H ⁺ transporting, lysosomal 50/57kDa, V1 subunit H	2.03E-12	Yes	No	Yes	No	No	No	No
8969	HIST1H2AG	histone cluster 1, H2ag	2.08E-12	No	No	Yes	No	No	Yes	No
26167	PCDH5	protocadherin beta 5	2.16E-12	No	No	Yes	No	No	No	No
79801	SHCBP1	SHC SH2-domain binding protein 1	2.18E-12	No	No	Yes	No	No	No	No
91319	DERL3	Der1-like domain family, member 3	2.30E-12	Yes	No	No	Yes	No	No	No
79027	ZNF655	zinc finger protein 655	2.34E-12	No	No	Yes	No	No	Yes	No
11080	DNAJB4	DnaJ (Hsp40) homolog, subfamily B, member 4	2.44E-12	No	No	Yes	No	No	No	No
9988	DMTF1	cyclin D binding myb-like transcription factor 1	2.49E-12	No	No	Yes	No	No	No	No
2521	FUS	fusion (involved in t(12;16) in malignant liposarcoma)	2.49E-12	No	No	Yes	No	No	No	No
9958	USP15	ubiquitin specific peptidase 15	2.58E-12	Yes	No	Yes	No	No	No	No
4172	MCM3	minichromosome maintenance complex component 3	2.59E-12	No	No	Yes	No	No	Yes	No
10277	UBE4B	ubiquitination factor E4B (UFD2 homolog, yeast)	2.69E-12	No	No	Yes	No	No	No	No
1653	DDX1	DEAD (Asp-Glu-Ala-Asp) box polypeptide 1	2.70E-12	No	No	No	Yes	No	No	No
123283	TARSL2	threonyl-tRNA synthetase-like 2	2.71E-12	Yes	No	Yes	No	No	No	No
2342	FNTB	farnesyltransferase, CAAX box, beta	2.76E-12	No	No	Yes	No	No	Yes	No

7071	KLF10	Kruppel-like factor 10	2.78E-12	No	No	No	Yes	No	No	No
5962	RDX	radixin	3.09E-12	Yes	No	Yes	No	No	No	No
257144	GCET2	germinal center expressed transcript 2	3.15E-12	No	Yes	Yes	No	No	No	No
88455	ANKRD13A	ankyrin repeat domain 13A	3.25E-12	No	Yes	Yes	No	No	Yes	No
9815	GIT2	G protein-coupled receptor kinase interactor 2	3.25E-12	No	Yes	Yes	No	No	No	No
1462	VCAN	versican	3.26E-12	No	No	No	Yes	No	No	No
10461	MERTK	c-mer proto-oncogene tyrosine kinase	3.30E-12	No	No	No	Yes	No	No	No
56479	KCNQ5	potassium voltage-gated channel, KQT-like subfamily, member 5	3.32E-12	No	No	Yes	No	No	No	No
65117	RSRC2	arginine/serine-rich coiled-coil 2	3.35E-12	No	No	Yes	No	No	Yes	No
55249	YY1AP1	YY1 associated protein 1	3.44E-12	No	Yes	No	No	No	No	No
56986	DTWD1	DTW domain containing 1	3.74E-12	No	No	Yes	No	No	No	No
375748	C9orf102	chromosome 9 open reading frame 102	3.94E-12	NA	No	No	No	Yes	No	No
23600	AMACR	alpha-methylacyl-CoA racemase	3.95E-12	Yes	No	Yes	No	No	Yes	No
26534	OR10G2	olfactory receptor, family 10, subfamily G, member 2	3.95E-12	NA	No	Yes	No	No	No	No
9939	RBM8A	RNA binding motif protein 8A	3.96E-12	Yes	No	Yes	No	No	No	No
143879	KBTBD3	kelch repeat and BTB (POZ) domain containing 3	4.00E-12	No	No	Yes	No	No	No	No
147923	ZNF420	zinc finger protein 420	4.05E-12	Yes	No	No	No	Yes	No	No
2969	GTF2I	general transcription factor II, I	4.05E-12	No	No	No	Yes	No	Yes	Yes
10906	TRAFD1	TRAF-type zinc finger domain containing 1	4.06E-12	No	No	No	Yes	No	No	No
7431	VIM	vimentin	4.10E-12	Yes	No	No	No	Yes	No	No
7157	TP53	tumor protein p53	4.36E-12	No	No	Yes	No	No	Yes	No
4053	LTBP2	latent transforming growth factor beta binding protein 2	4.36E-12	No	No	No	Yes	No	No	No
9040	UBE2M	ubiquitin-conjugating enzyme E2M (UBC12 homolog, yeast)	4.43E-12	No	No	No	Yes	No	No	No
9215	LARGE	like-glycosyltransferase	4.51E-12	No	Yes	No	Yes	No	No	No
51107	APH1A	anterior pharynx defective 1 homolog A (C. elegans)	4.59E-12	No	No	Yes	No	No	No	No
79365	BHLHB3	basic helix-loop-helix domain containing, class B, 3	4.98E-12	Yes	No	Yes	No	No	Yes	No
116379	IL22RA2	interleukin 22 receptor, alpha 2	4.99E-12	No	No	Yes	No	No	No	No
60492	CCDC90B	coiled-coil domain containing 90B	5.09E-12	No	No	No	Yes	No	No	No
23013	SPEN	spen homolog, transcriptional regulator (Drosophila)	5.12E-12	Yes	No	Yes	No	No	No	No
652965	SNORA48	small nucleolar RNA, H/ACA box 48	5.12E-12	NA	No	Yes	No	No	No	No
10635	RAD51AP1	RAD51 associated protein 1	5.14E-12	No	No	Yes	No	No	Yes	No
1173	AP2M1	adaptor-related protein complex 2, mu 1 subunit	5.15E-12	No	No	Yes	No	No	No	No
8220	DGCR14	DiGeorge syndrome critical region gene 14	5.15E-12	No	No	Yes	No	No	Yes	No
951	CD37	CD37 molecule	5.18E-12	No	No	No	No	Yes	No	No

6667	SP1	Sp1 transcription factor	5.30E-12	No	No	No	No	Yes	Yes	No
80208	SPG11	spastic paraplegia 11 (autosomal recessive)	5.46E-12	Yes	No	Yes	No	No	No	No
403	ARL3	ADP-ribosylation factor-like 3	5.62E-12	No	No	Yes	No	No	Yes	No
55755	CDK5RAP2	CDK5 regulatory subunit associated protein 2	5.67E-12	No	No	Yes	No	No	No	No
56204	KIAA1370	KIAA1370	5.70E-12	No	No	Yes	No	No	No	No
8315	BRAP	BRCA1 associated protein	5.82E-12	No	No	Yes	No	No	No	No
9453	GGPS1	geranylgeranyl diphosphate synthase 1	5.93E-12	Yes	No	No	Yes	No	No	No
6760	SS18	synovial sarcoma translocation, chromosome 18	6.25E-12	No	Yes	No	Yes	No	No	No
135	ADORA2A	adenosine A2a receptor	6.38E-12	No	No	No	Yes	No	No	No
7323	UBE2D3	ubiquitin-conjugating enzyme E2D 3 (UBC4/5 homolog, yeast)	6.58E-12	No	No	No	Yes	No	No	No
1848	DUSP6	dual specificity phosphatase 6	6.75E-12	Yes	No	Yes	No	No	No	No
3091	HIF1A	hypoxia-inducible factor 1, alpha subunit (basic helix-loop-helix transcription factor)	6.85E-12	No	No	No	Yes	No	No	No
112398	EGLN2	egl nine homolog 2 (C. elegans)	6.90E-12	Yes	No	Yes	No	No	No	No
4683	NBN	nibrin	6.92E-12	No	No	No	Yes	No	No	No
79968	WDR76	WD repeat domain 76	7.00E-12	No	No	Yes	No	No	No	No
54464	XRN1	5'-3' exoribonuclease 1	7.06E-12	Yes	No	No	No	No	No	No
472	ATM	ataxia telangiectasia mutated	7.17E-12	Yes	No	No	Yes	No	Yes	No
8086	AAAS	achalasia, adrenocortical insufficiency, alacrimia (Allgrove, triple-A)	7.25E-12	No	No	No	Yes	No	No	No
694	BTG1	B-cell translocation gene 1, anti-proliferative	7.44E-12	Yes	No	Yes	No	No	No	No
6801	STRN	striatin, calmodulin binding protein	7.46E-12	No	No	Yes	No	No	Yes	No
686	BTD	biotinidase	7.47E-12	Yes	No	Yes	No	No	Yes	Yes
1643	DDB2	damage-specific DNA binding protein 2, 48kDa	7.67E-12	No	Yes	No	Yes	No	Yes	No
5892	RAD51L3	RAD51-like 3 (S. cerevisiae)	7.71E-12	Yes	No	No	Yes	No	No	No
217	ALDH2	aldehyde dehydrogenase 2 family (mitochondrial)	7.72E-12	No	No	Yes	No	No	No	No
3431	SP110	SP110 nuclear body protein	7.73E-12	Yes	No	No	Yes	No	No	No
5911	RAP2A	RAP2A, member of RAS oncogene family	7.73E-12	No	No	No	No	Yes	No	No
80167	C4orf29	chromosome 4 open reading frame 29	7.74E-12	No	No	Yes	No	No	Yes	No
79073	TMEM109	transmembrane protein 109	7.97E-12	Yes	No	Yes	No	No	No	No
54664	TMEM106B	transmembrane protein 106B	8.12E-12	No	No	No	No	Yes	Yes	No
10019	SH2B3	SH2B adaptor protein 3	8.19E-12	Yes	No	No	Yes	No	No	No
1794	DOCK2	dedicator of cytokinesis 2	8.24E-12	No	No	Yes	No	No	No	No
9791	PTDSS1	phosphatidylserine synthase 1	8.48E-12	No	No	Yes	No	No	No	No
9404	LPXN	leupaxin	8.55E-12	No	No	No	Yes	No	No	No
5450	POU2AF1	POU class 2 associating factor 1	8.84E-12	No	No	No	No	Yes	No	No

147323	STAR6	STAR-related lipid transfer (START) domain containing 6	8.94E-12	No	No	Yes	No	No	No	No
5727	PTCH1	patched homolog 1 (Drosophila)	8.96E-12	No	No	No	Yes	No	No	No
55063	ZCWPW1	zinc finger, CW type with PWWP domain 1	8.99E-12	Yes	No	Yes	No	No	No	No
56257	MEPCE	methyolphosphate capping enzyme	8.99E-12	No	No	Yes	No	No	No	No
165918	RNF168	ring finger protein 168	9.00E-12	No	No	Yes	No	No	No	No
80008	TMEM156	transmembrane protein 156	9.09E-12	No	No	Yes	No	No	No	No
51506	UFC1	ubiquitin-fold modifier conjugating enzyme 1	9.46E-12	No	No	No	Yes	No	No	No
52	ACP1	acid phosphatase 1, soluble	9.52E-12	No	No	Yes	No	No	Yes	Yes
1310	COL19A1	collagen, type XIX, alpha 1	9.56E-12	Yes	No	Yes	No	No	Yes	Yes
2729	GCLC	glutamate-cysteine ligase, catalytic subunit	1.01E-11	Yes	No	Yes	No	No	No	No
9685	CLINT1	clathrin interactor 1	1.01E-11	No	No	No	Yes	No	No	No
54891	FLJ20309	hypothetical protein FLJ20309	1.02E-11	No	No	Yes	No	No	No	No
5079	PAX5	paired box 5	1.03E-11	No	No	No	Yes	No	No	No
166824	RASSF6	Ras association (RalGDS/AF-6) domain family member 6	1.03E-11	No	No	Yes	No	No	No	No
25800	SLC39A6	solute carrier family 39 (zinc transporter), member 6	1.06E-11	Yes	No	No	Yes	No	No	No
55250	ELP2	elongation protein 2 homolog (S. cerevisiae)	1.06E-11	Yes	No	No	Yes	No	No	No
1915	EEF1A1	eukaryotic translation elongation factor 1 alpha 1	1.08E-11	No	No	No	Yes	No	Yes	No
80199	FUZ	fuzzy homolog (Drosophila)	1.08E-11	No	No	Yes	No	No	Yes	No
81857	MED25	mediator complex subunit 25	1.08E-11	No	No	Yes	No	No	No	No
124808	CDC43	coiled-coil domain containing 43	1.10E-11	No	No	No	Yes	No	No	No
11052	CPSF6	cleavage and polyadenylation specific factor 6, 68kDa	1.12E-11	No	No	Yes	No	No	No	No
25847	ANAPC13	anaphase promoting complex subunit 13	1.13E-11	Yes	No	Yes	No	No	Yes	No
79621	RNASEH2B	ribonuclease H2, subunit B	1.15E-11	Yes	No	Yes	No	No	No	No
9643	MORF4L2	mortality factor 4 like 2	1.15E-11	Yes	No	Yes	No	No	No	No
10728	PTGES3	prostaglandin E synthase 3 (cytosolic)	1.15E-11	No	No	No	Yes	No	Yes	No
11016	ATF7	activating transcription factor 7	1.15E-11	No	No	No	Yes	No	No	No
394	ARGAP5	Rho GTPase activating protein 5	1.16E-11	Yes	No	Yes	No	No	No	No
971	CD72	CD72 molecule	1.16E-11	Yes	No	No	Yes	No	No	No
8973	CHRNA6	cholinergic receptor, nicotinic, alpha 6	1.16E-11	No	No	Yes	No	No	Yes	No
1615	DARS	aspartyl-tRNA synthetase	1.18E-11	No	No	No	Yes	No	Yes	No
1081	CGA	glycoprotein hormones, alpha polypeptide	1.20E-11	No	No	Yes	No	No	No	No
5652	PSMB4	proteasome (prosome, macropain) subunit, beta type, 4	1.20E-11	No	No	Yes	No	No	No	No
1906	EDN1	endothelin 1	1.22E-11	No	No	Yes	No	No	No	No
1846	DUSP4	dual specificity phosphatase 4	1.25E-11	Yes	No	Yes	No	No	Yes	Yes

392	ARHGAP1	Rho GTPase activating protein 1	1.30E-11	Yes	No	No	Yes	No	Yes	Yes
79797	ZNF408	zinc finger protein 408	1.30E-11	No	No	No	Yes	No	Yes	No
571	BACH1	BTB and CNC homology 1, basic leucine zipper transcription factor 1	1.33E-11	Yes	No	Yes	No	No	No	No
8347	HIST1H2BC	histone cluster 1, H2bc	1.39E-11	Yes	No	Yes	No	No	Yes	No
7252	TSHB	thyroid stimulating hormone, beta	1.40E-11	No	No	Yes	No	No	No	No
28960	DCPS	decapping enzyme, scavenger	1.41E-11	No	No	Yes	No	No	Yes	No
23760	PITPNB	phosphatidylinositol transfer protein, beta	1.45E-11	Yes	No	No	Yes	No	No	No
8396	PIP4K2B	phosphatidylinositol-5-phosphate 4-kinase, type II, beta	1.48E-11	No	No	No	Yes	No	Yes	No
51400	PPME1	protein phosphatase methyltransferase 1	1.50E-11	No	No	No	Yes	No	No	No
55008	HERC6	hect domain and RLD 6	1.50E-11	Yes	No	Yes	No	No	No	No
23332	CLASP1	cytoplasmic linker associated protein 1	1.51E-11	No	No	No	Yes	No	Yes	No
6446	SGK1	serum/glucocorticoid regulated kinase 1	1.61E-11	No	Yes	Yes	No	No	Yes	No
84447	SYVN1	synovial apoptosis inhibitor 1, synoviolin	1.67E-11	No	Yes	No	Yes	No	No	No
219333	USP12	ubiquitin specific peptidase 12	1.68E-11	No	Yes	Yes	No	No	Yes	No
9559	VPS26A	vacuolar protein sorting 26 homolog A (S. pombe)	1.69E-11	No	Yes	No	Yes	No	No	No
85236	HIST1H2BK	histone cluster 1, H2bk	1.71E-11	Yes	No	No	Yes	No	Yes	Yes
83548	COG3	component of oligomeric golgi complex 3	1.86E-11	Yes	No	No	No	No	No	No
79142	PHF23	PHD finger protein 23	1.90E-11	No	No	Yes	No	No	No	No
55074	OXR1	oxidation resistance 1	1.91E-11	Yes	Yes	Yes	No	No	No	No
950	SCARB2	scavenger receptor class B, member 2	1.99E-11	Yes	No	No	Yes	No	Yes	Yes
10438	C1D	nuclear DNA-binding protein	1.99E-11	No	No	Yes	No	No	Yes	No
1604	CD55	CD55 molecule, decay accelerating factor for complement (Cromer blood group)	2.02E-11	Yes	No	No	Yes	No	Yes	Yes
8363	HIST1H4J	histone cluster 1, H4j	2.06E-11	NA*	Yes	Yes	No	No	Yes	No
22908	SACM1L	SAC1 suppressor of actin mutations 1-like (yeast)	2.07E-11	No	No	No	No	Yes	Yes	No
2805	GOT1	glutamic-oxaloacetic transaminase 1, soluble (aspartate aminotransferase 1)	2.12E-11	No	No	Yes	No	No	Yes	No
741	ZNHIT2	zinc finger, HIT type 2	2.12E-11	No	No	No	Yes	No	Yes	No
10193	RNF41	ring finger protein 41	2.22E-11	Yes	No	Yes	No	No	No	No
5518	PPP2R1A	protein phosphatase 2 (formerly 2A), regulatory subunit A, alpha isoform	2.24E-11	No	No	No	No	No	No	No
221037	JMJD1C	jumonji domain containing 1C	2.38E-11	No	No	Yes	No	No	Yes	No
57805	KIAA1967	KIAA1967	2.39E-11	No	No	No	Yes	No	No	No
4697	NDUF44	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 4, 9kDa	2.41E-11	No	No	Yes	No	No	Yes	No
2762	GMDS	GDP-mannose 4,6-dehydratase	2.46E-11	No	No	Yes	No	No	Yes	No
5495	PPM1B	protein phosphatase 1B (formerly 2C), magnesium-dependent, beta isoform	2.47E-11	Yes	No	Yes	No	No	Yes	No
330	BIRC3	baculoviral IAP repeat-containing 3	2.53E-11	No	Yes	Yes	No	No	Yes	No

9873	FCHSD2	FCH and double SH3 domains 2	2.54E-11	Yes	No	No	No	No	Yes	Yes
51705	EMCN	endomucin	2.59E-11	Yes	No	No	Yes	No	No	No
9337	CNOT8	CCR4-NOT transcription complex, subunit 8	2.59E-11	No	No	Yes	No	No	No	No
63977	PRDM15	PR domain containing 15	2.64E-11	No	No	Yes	No	No	No	No
94241	TP53INP1	tumor protein p53 inducible nuclear protein 1	2.73E-11	No	No	No	No	Yes	No	No
11262	SP140	SP140 nuclear body protein	2.79E-11	No	No	Yes	No	No	Yes	Yes
1351	COX8A	cytochrome c oxidase subunit 8A (ubiquitous)	2.88E-11	No	No	No	Yes	No	Yes	No
6477	SIAH1	seven in absentia homolog 1 (Drosophila)	2.88E-11	Yes	No	Yes	No	No	Yes	No
54940	OCIAD1	OCIA domain containing 1	2.92E-11	No	No	Yes	No	No	Yes	No
6925	TCF4	transcription factor 4	2.93E-11	Yes	No	No	Yes	No	Yes	No
7094	TLN1	talin 1	3.05E-11	Yes	No	No	Yes	No	Yes	Yes
1195	CLK1	CDC-like kinase 1	3.07E-11	No	No	No	No	Yes	No	No
5050	PAFAH1B3	platelet-activating factor acetylhydrolase, isoform Ib, gamma subunit 29kDa	3.15E-11	No	No	No	Yes	No	Yes	No
7259	TSPYL1	TSPY-like 1	3.16E-11	Yes	Yes	Yes	No	No	No	No
92822	ZNF276	zinc finger protein 276	3.28E-11	Yes	No	Yes	No	No	No	No
663	BNIP2	BCL2/adenovirus E1B 19kDa interacting protein 2	3.43E-11	No	No	Yes	No	No	No	No
285971	ZNF775	zinc finger protein 775	3.46E-11	No	No	No	Yes	No	Yes	No
142	PARP1	poly (ADP-ribose) polymerase family, member 1	3.46E-11	No	No	Yes	No	No	Yes	No
2632	GBE1	glucan (1,4-alpha)-, branching enzyme 1 (glycogen branching enzyme, Andersen disease, glycogen storage disease type IV)	3.51E-11	No	No	No	No	Yes	No	No
23234	DNAJC9	DnaJ (Hsp40) homolog, subfamily C, member 9	3.57E-11	No	No	Yes	No	No	No	No
79295	OR5H6	olfactory receptor, family 5, subfamily H, member 6	3.58E-11	NA	No	Yes	No	No	No	No
8930	MBD4	methyl-CpG binding domain protein 4	3.60E-11	No	Yes	Yes	No	No	No	No
64397	ZFP106	zinc finger protein 106 homolog (mouse)	3.74E-11	No	No	No	No	No	Yes	No
11340	EXOSC8	exosome component 8	3.90E-11	No	No	Yes	No	No	Yes	No
29880	ALG5	asparagine-linked glycosylation 5 homolog (S. cerevisiae, dolichyl-phosphate beta-glucosyltransferase)	3.90E-11	No	No	Yes	No	No	Yes	No
144100	PLEKHA7	pleckstrin homology domain containing, family A member 7	3.94E-11	No	No	No	No	No	No	No
10600	USP16	ubiquitin specific peptidase 16	3.98E-11	No	No	Yes	No	No	Yes	No
10538	BATF	basic leucine zipper transcription factor, ATF-like	3.98E-11	Yes	No	No	Yes	No	No	No
360023	ZBTB41	zinc finger and BTB domain containing 41	3.99E-11	Yes	No	Yes	No	No	Yes	No
5051	PAFAH2	platelet-activating factor acetylhydrolase 2, 40kDa	4.07E-11	No	No	No	Yes	No	No	No
2932	GSK3B	glycogen synthase kinase 3 beta	4.11E-11	No	No	Yes	No	No	No	No
4208	MEF2C	myocyte enhancer factor 2C	4.23E-11	Yes	No	No	Yes	No	Yes	No
4901	NRL	neural retina leucine zipper	4.32E-11	No	No	Yes	No	No	No	No
7170	TPM3	tropomyosin 3	4.32E-11	No	Yes	No	Yes	No	No	No

801	CALM1	calmodulin 1 (phosphorylase kinase, delta)	4.34E-11	No	No	No	Yes	No	No	No
331	XIAP	X-linked inhibitor of apoptosis	4.46E-11	Yes	No	Yes	No	No	No	No
26065	LSM14A	LSM14A, SCD6 homolog A (S. cerevisiae)	4.69E-11	No	Yes	Yes	No	No	No	No
197259	MLKL	mixed lineage kinase domain-like	4.71E-11	Yes	No	Yes	No	No	No	No
4081	MAB21L1	mab-21-like 1 (C. elegans)	4.74E-11	No	No	No	Yes	No	No	No
3635	INPP5D	inositol polyphosphate-5-phosphatase, 145kDa	4.75E-11	Yes	No	No	Yes	No	No	No
4735	SEPT2	septin 2	4.77E-11	No	No	Yes	No	No	No	No
1716	DGUOK	deoxyguanosine kinase	4.78E-11	No	No	Yes	No	No	No	No
25790	CCDC19	coiled-coil domain containing 19	4.80E-11	No	No	Yes	No	No	No	No
5928	RBBP4	retinoblastoma binding protein 4	4.98E-11	No	Yes	No	Yes	No	Yes	No
339487	ZBTB80S	zinc finger and BTB domain containing 8 opposite strand	4.98E-11	No	No	Yes	No	No	No	No
7360	UGP2	UDP-glucose pyrophosphorylase 2	4.99E-11	No	No	Yes	No	No	Yes	No
7873	ARMET	arginine-rich, mutated in early stage tumors	4.99E-11	No	No	No	Yes	No	No	No
53336	CPXCR1	CPX chromosome region, candidate 1	5.22E-11	No	No	Yes	No	No	No	No
256471	MFSDB	major facilitator superfamily domain containing 8	5.27E-11	Yes	No	No	Yes	No	Yes	No
9110	MTMR4	myotubularin related protein 4	5.29E-11	Yes	Yes	No	No	No	No	No
51466	EVL	Enah/Vasp-like	5.45E-11	Yes	No	Yes	No	No	No	No
23636	NUP62	nucleoporin 62kDa	5.63E-11	No	No	No	Yes	No	No	No
311	ANXA11	annexin A11	5.69E-11	Yes	No	Yes	No	No	No	No
1438	CSF2RA	colony stimulating factor 2 receptor, alpha, low-affinity (granulocyte-macrophage)	6.02E-11	Yes	No	No	Yes	No	No	No
7355	SLC35A2	solute carrier family 35 (UDP-galactose transporter), member A2	6.03E-11	No	No	No	Yes	No	No	No
124401	ANKS3	ankyrin repeat and sterile alpha motif domain containing 3	6.09E-11	No	No	No	Yes	No	No	No
3008	HIST1H1E	histone cluster 1, H1e	6.21E-11	No	No	Yes	No	No	No	No
7531	YWHAE	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, epsilon polypeptide	6.24E-11	No	No	Yes	No	No	Yes	No
8346	HIST1H2BI	histone cluster 1, H2bi	6.24E-11	Yes	No	Yes	No	No	Yes	No
8355	HIST1H3G	histone cluster 1, H3g	6.24E-11	No	No	Yes	No	No	Yes	No
7171	TPM4	tropomyosin 4	6.24E-11	No	No	Yes	No	No	No	No
7095	SEC62	SEC62 homolog (S. cerevisiae)	6.39E-11	Yes	No	Yes	No	No	No	No
5476	CTSA	cathepsin A	6.61E-11	Yes	No	No	Yes	No	Yes	No
140825	NEURL2	neuronalized homolog 2 (Drosophila)	6.61E-11	No	No	No	Yes	No	Yes	No
57461	ISY1	ISY1 splicing factor homolog (S. cerevisiae)	6.64E-11	No	No	Yes	No	No	Yes	No
91039	DPP9	dipeptidyl-peptidase 9	6.74E-11	No	No	Yes	No	No	No	No
6586	SLIT3	slit homolog 3 (Drosophila)	6.93E-11	No	No	No	Yes	No	No	No
4293	MAP3K9	mitogen-activated protein kinase kinase kinase 9	7.05E-11	No	No	No	No	No	No	No

8556	CDC14A	CDC14 cell division cycle 14 homolog A (S. cerevisiae)	7.29E-11	Yes	No	No	Yes	No	Yes	No
23012	STK38L	serine/threonine kinase 38 like	7.33E-11	No	No	Yes	No	No	No	No
1486	CTBS	chitinase, di-N-acetyl-	7.53E-11	No	No	No	Yes	No	No	No
1842	ECM2	extracellular matrix protein 2, female organ and adipocyte specific	7.61E-11	No	No	Yes	No	No	No	No
51263	MRPL30	mitochondrial ribosomal protein L30	7.65E-11	No	No	Yes	No	No	Yes	No
55783	FLJ11171	hypothetical protein FLJ11171	7.73E-11	Yes	No	No	Yes	No	No	No
10208	USPL1	ubiquitin specific peptidase like 1	7.73E-11	No	No	Yes	No	No	Yes	No
170384	FUT11	fucosyltransferase 11 (alpha (1,3) fucosyltransferase)	7.90E-11	No	Yes	No	Yes	No	No	No
116966	WDR17	WD repeat domain 17	7.98E-11	No	No	Yes	No	No	Yes	No
253430	IPMK	inositol polyphosphate multikinase	8.01E-11	No	No	Yes	No	No	No	No
10716	TBR1	T-box, brain, 1	8.08E-11	No	No	No	No	No	No	No
388552	BLOC1S3	biogenesis of lysosome-related organelles complex-1, subunit 3	8.26E-11	Yes	No	Yes	No	No	No	No
79090	TRAPPC6A	trafficking protein particle complex 6A	8.26E-11	No	No	Yes	No	No	No	No
7978	MTERF	mitochondrial transcription termination factor	8.48E-11	No	No	Yes	No	No	No	No
25816	TNFAIP8	tumor necrosis factor, alpha-induced protein 8	8.64E-11	No	No	No	Yes	No	No	No
7702	ZNF143	zinc finger protein 143	9.01E-11	No	No	Yes	No	No	No	No
4790	NFKB1	nuclear factor of kappa light polypeptide gene enhancer in B-cells 1 (p105)	9.38E-11	Yes	No	Yes	No	No	No	No
3980	LIG3	ligase III, DNA, ATP-dependent	9.56E-11	No	No	Yes	No	No	No	No
51222	ZNF219	zinc finger protein 219	9.65E-11	Yes	No	No	Yes	No	No	No
3930	LBR	lamin B receptor	9.86E-11	No	No	Yes	No	No	Yes	No
55839	CENPN	centromere protein N	9.89E-11	No	No	Yes	No	No	Yes	No
27244	SESN1	sestrin 1	1.02E-10	Yes	No	Yes	No	No	Yes	No
6634	SNRPD3	small nuclear ribonucleoprotein D3 polypeptide 18kDa	1.02E-10	No	No	Yes	No	No	Yes	No
51601	LIPT1	lipoyltransferase 1	1.03E-10	Yes	No	Yes	No	No	Yes	No
55024	BANK1	B-cell scaffold protein with ankyrin repeats 1	1.05E-10	Yes	No	Yes	No	No	No	No
65125	WNK1	WNK lysine deficient protein kinase 1	1.05E-10	No	No	Yes	No	No	No	No
10370	CITED2	Cbp/p300-interacting transactivator, with Glu/Asp-rich carboxy-terminal domain, 2	1.06E-10	No	No	Yes	No	No	Yes	No
3312	HSPA8	heat shock 70kDa protein 8	1.07E-10	No	No	Yes	No	No	No	No
148254	ZNF555	zinc finger protein 555	1.07E-10	No	No	Yes	No	No	No	No
29123	ANKRD11	ankyrin repeat domain 11	1.07E-10	Yes	Yes	Yes	No	No	No	No
1737	DLAT	dihydrolipoamide S-acetyltransferase	1.09E-10	No	Yes	Yes	No	No	No	No
51567	TTRAP	TRAF and TNF receptor associated protein	1.09E-10	No	No	Yes	No	No	No	No
149420	PDIK1L	PDLIM1 interacting kinase 1 like	1.13E-10	No	No	Yes	No	No	Yes	No
64431	ACTR6	ARP6 actin-related protein 6 homolog (yeast)	1.14E-10	No	No	Yes	No	No	No	No

585	BBS4	Bardet-Biedl syndrome 4	1.14E-10	No	No	No	Yes	No	No	No
57559	STAMBPL1	STAM binding protein-like 1	1.17E-10	Yes	No	No	Yes	No	No	No
1974	EIF4A2	eukaryotic translation initiation factor 4A, isoform 2	1.19E-10	No	No	Yes	No	No	No	No
84307	ZNF397	zinc finger protein 397	1.19E-10	Yes	No	No	Yes	No	No	No
26268	FBXO9	F-box protein 9	1.23E-10	Yes	No	Yes	No	No	No	No
22858	ICK	intestinal cell (MAK-like) kinase	1.23E-10	Yes	No	Yes	No	No	No	No
8334	HIST1H2AC	histone cluster 1, H2ac	1.32E-10	Yes	No	Yes	No	No	Yes	Yes
80255	SLC36F5	solute carrier family 35, member F5	1.33E-10	No	No	Yes	No	No	No	No
8945	BTRC	beta-transducin repeat containing	1.34E-10	No	No	No	No	Yes	No	No
54107	POLE3	polymerase (DNA directed), epsilon 3 (p17 subunit)	1.34E-10	No	No	No	No	No	No	No
4123	MAN2C1	mannosidase, alpha, class 2C, member 1	1.34E-10	Yes	No	No	Yes	No	No	No
54431	DNAJC10	DnaJ (Hsp40) homolog, subfamily C, member 10	1.34E-10	No	Yes	Yes	No	No	No	No
10210	TOPORS	topoisomerase I binding, arginine/serine-rich	1.34E-10	Yes	No	Yes	No	No	No	No
11335	CBX3	chromobox homolog 3 (HP1 gamma homolog, Drosophila)	1.34E-10	No	No	Yes	No	No	Yes	No
3416	IDE	insulin-degrading enzyme	1.39E-10	No	No	Yes	No	No	Yes	No
57804	POLD4	polymerase (DNA-directed), delta 4	1.42E-10	No	No	No	Yes	No	No	No
80237	ELL3	elongation factor RNA polymerase II-like 3	1.43E-10	No	Yes	No	Yes	No	Yes	No
60677	BRUNOL6	bruno-like 6, RNA binding protein (Drosophila)	1.43E-10	No	No	Yes	No	No	No	No
54820	NDE1	nude nuclear distribution gene E homolog 1 (A. nidulans)	1.45E-10	No	No	No	Yes	No	Yes	No
1487	CTBP1	C-terminal binding protein 1	1.45E-10	No	No	No	No	No	No	No
6782	HSPA13	heat shock protein 70kDa family, member 13	1.45E-10	No	No	Yes	No	No	No	No
94239	H2AFV	H2A histone family, member V	1.45E-10	No	Yes	Yes	No	No	No	No
26263	FBXO22	F-box protein 22	1.45E-10	No	No	Yes	No	No	No	No
8366	HIST1H4B	histone cluster 1, H4b	1.46E-10	No	Yes	Yes	No	No	No	No
80351	TNKS2	tankyrase, TRF1-interacting ankyrin-related ADP-ribose polymerase 2	1.46E-10	No	No	Yes	No	No	No	No
6491	STIL	SCL/TAL1 interrupting locus	1.47E-10	No	No	Yes	No	No	No	No
9111	NMI	N-myc (and STAT) interactor	1.47E-10	No	No	No	Yes	No	No	No
10320	IKZF1	IKAROS family zinc finger 1 (Ikaros)	1.49E-10	No	Yes	Yes	No	No	No	No
131583	FAM43A	family with sequence similarity 43, member A	1.49E-10	No	No	Yes	No	No	Yes	No
116228	FAM36A	family with sequence similarity 36, member A	1.52E-10	Yes	Yes	Yes	No	No	No	No
26191	PTPN22	protein tyrosine phosphatase, non-receptor type 22 (lymphoid)	1.58E-10	No	No	Yes	No	No	No	No
2551	GABPA	GA binding protein transcription factor, alpha subunit 60kDa	1.59E-10	No	No	No	No	Yes	No	No
11332	ACOT7	acyl-CoA thioesterase 7	1.60E-10	No	No	Yes	No	No	Yes	No
23097	CDC2L6	cell division cycle 2-like 6 (CDKB-like)	1.63E-10	No	No	Yes	No	No	Yes	No

5609	MAP2K7	mitogen-activated protein kinase kinase 7	1.64E-10	No	No	No	Yes	No	No	No
9819	TSC22D2	TSC22 domain family, member 2	1.65E-10	Yes	No	Yes	No	No	No	No
10773	ZBTB6	zinc finger and BTB domain containing 6	1.66E-10	No	No	Yes	No	No	No	No
11051	NUDT21	nudix (nucleoside diphosphate linked moiety X)-type motif 21	1.67E-10	No	No	Yes	No	No	No	No
124790	HEXIM2	hexamethylene bis-acetamide inducible 2	1.67E-10	Yes	No	Yes	No	No	No	No
867	CBL	Cas-Br-M (murine) ecotropic retroviral transforming sequence	1.69E-10	No	No	Yes	No	No	No	No
2617	GARS	glycyl-tRNA synthetase	1.70E-10	No	No	Yes	No	No	Yes	No
51569	UFM1	ubiquitin-fold modifier 1	1.70E-10	Yes	No	Yes	No	No	No	No
3015	H2AFZ	H2A histone family, member Z	1.72E-10	No	No	Yes	No	No	No	No
10933	MORF4L1	mortality factor 4 like 1	1.73E-10	No	No	Yes	No	No	No	No
7398	USP1	ubiquitin specific peptidase 1	1.73E-10	No	No	Yes	No	No	No	No
55032	SLC35A5	solute carrier family 35, member A5	1.74E-10	No	No	No	No	Yes	Yes	No
92140	MTDH	metadherin	1.75E-10	No	No	No	No	No	No	No
5629	PROX1	prospero homeobox 1	1.77E-10	No	No	Yes	No	No	Yes	No
1634	DCN	decorin	1.83E-10	No	No	Yes	No	No	No	No
85464	SSH2	slingshot homolog 2 (Drosophila)	1.84E-10	Yes	No	Yes	No	No	Yes	No
56099	PCDHGB7	protocadherin gamma subfamily B, 7	1.88E-10	No	No	Yes	No	No	Yes	No
29946	SERTAD3	SERTA domain containing 3	1.88E-10	Yes	No	Yes	No	No	Yes	No
51514	DTL	denticleless homolog (Drosophila)	1.91E-10	No	No	Yes	No	No	Yes	No
27127	SMC1B	structural maintenance of chromosomes 1B	1.92E-10	No	No	Yes	No	No	Yes	No
57026	PDXP	pyridoxal (pyridoxine, vitamin B6) phosphatase	1.93E-10	No	No	Yes	No	No	No	No
6046	BRD2	bromodomain containing 2	1.93E-10	No	No	No	Yes	No	Yes	Yes
58487	CREBZF	CREB/ATF bZIP transcription factor	1.94E-10	No	No	No	Yes	No	Yes	No
861	RUNX1	runt-related transcription factor 1 (acute myeloid leukemia 1; aml1 oncogene)	1.94E-10	No	No	Yes	No	No	No	No
4729	NDUFV2	NADH dehydrogenase (ubiquinone) flavoprotein 2, 24kDa	1.98E-10	No	No	Yes	No	No	No	No
26973	CHORDC1	cysteine and histidine-rich domain (CHORD)-containing 1	2.03E-10	Yes	No	Yes	No	No	Yes	No
94240	EPST11	epithelial stromal interaction 1 (breast)	2.06E-10	Yes	Yes	Yes	No	No	No	No
8470	SORBS2	sorbin and SH3 domain containing 2	2.09E-10	Yes	No	Yes	No	No	No	No
201163	FLCN	folliculin	2.09E-10	Yes	No	Yes	No	No	No	No
80851	SH3BP5L	SH3-binding domain protein 5-like	2.11E-10	No	No	No	Yes	No	No	No
5930	RBBP6	retinoblastoma binding protein 6	2.11E-10	Yes	No	No	No	No	No	No
55422	ZNF331	zinc finger protein 331	2.20E-10	Yes	No	No	Yes	No	No	No
9126	SMC3	structural maintenance of chromosomes 3	2.24E-10	No	Yes	Yes	No	No	No	No
54832	VPS13C	vacuolar protein sorting 13 homolog C (S. cerevisiae)	2.25E-10	Yes	No	Yes	No	No	No	No

145741	FAM148A	family with sequence similarity 148, member A	2.25E-10	NA	No	Yes	No	No	No	No
84954	MPND	MPN domain containing	2.30E-10	No	No	No	Yes	No	Yes	No
55620	STAP2	signal transducing adaptor family member 2	2.30E-10	No	No	No	Yes	No	No	No
8666	EIF3G	eukaryotic translation initiation factor 3, subunit G	2.34E-10	No	No	No	Yes	No	No	No
25824	PRDX5	peroxiredoxin 5	2.39E-10	No	No	No	Yes	No	Yes	No
51504	HSPC152	hypothetical protein HSPC152	2.39E-10	No	No	No	Yes	No	Yes	No
81542	TXNDC1	thioredoxin domain containing 1	2.40E-10	No	No	Yes	No	No	Yes	No
387640	C10orf140	chromosome 10 open reading frame 140	2.48E-10	No	No	Yes	No	No	Yes	No
79176	FBXL15	F-box and leucine-rich repeat protein 15	2.48E-10	No	No	Yes	No	No	No	No
4616	GADD45B	growth arrest and DNA-damage-inducible, beta	2.54E-10	No	No	No	Yes	No	Yes	No
10730	YME1L1	YME1-like 1 (<i>S. cerevisiae</i>)	2.62E-10	No	No	Yes	No	No	No	No
27086	FOXP1	forkhead box P1	2.62E-10	Yes	No	Yes	No	No	No	No
9256	BZRAP1	benzodiazepine receptor (peripheral) associated protein 1	2.62E-10	No	Yes	No	No	No	Yes	No
55872	PBK	PDZ binding kinase	2.68E-10	No	No	Yes	No	No	No	No
79781	IQCA	IQ motif containing with AAA domain	2.69E-10	No	No	Yes	No	No	No	No
9682	JMJ2A	jumonji domain containing 2A	2.69E-10	No	No	Yes	No	No	No	No
6924	TCEB3	transcription elongation factor B (SIII), polypeptide 3 (110kDa, elongin A)	2.69E-10	Yes	No	No	Yes	No	No	No
57332	CBX8	chromobox homolog 8 (<i>Pc</i> class homolog, <i>Drosophila</i>)	2.69E-10	No	No	No	Yes	No	No	No
149986	LSM14B	LSM14B, SCD6 homolog B (<i>S. cerevisiae</i>)	2.69E-10	Yes	No	Yes	No	No	No	No
3070	HELLS	helicase, lymphoid-specific	2.69E-10	No	No	Yes	No	No	No	No
3927	LASP1	LIM and SH3 protein 1	2.70E-10	No	No	No	No	Yes	Yes	No
22883	CLSTN1	calyntenin 1	2.70E-10	No	No	No	Yes	No	Yes	No
55863	TMEM126B	transmembrane protein 126B	2.70E-10	No	No	No	Yes	No	No	No
25963	TMEM87A	transmembrane protein 87A	2.75E-10	Yes	No	Yes	No	No	Yes	Yes
3577	IL8RA	interleukin 8 receptor, alpha	3.02E-10	No	No	No	Yes	No	No	No
7555	CNBP	CCHC-type zinc finger, nucleic acid binding protein	3.03E-10	Yes	No	No	Yes	No	No	No
126074	C19orf39	chromosome 19 open reading frame 39	3.08E-10	No	No	Yes	No	No	Yes	No
7745	ZNF192	zinc finger protein 192	3.13E-10	No	No	No	Yes	No	Yes	No
57455	REXO1	REX1, RNA exonuclease 1 homolog (<i>S. cerevisiae</i>)	3.16E-10	Yes	No	Yes	No	No	No	No
9188	DDX21	DEAD (Asp-Glu-Ala-Asp) box polypeptide 21	3.19E-10	No	No	No	No	Yes	No	No
81550	TDRD3	tudor domain containing 3	3.23E-10	No	No	Yes	No	No	Yes	Yes
9899	SV2B	synaptic vesicle glycoprotein 2B	3.26E-10	Yes	No	Yes	No	No	No	No
51460	SFMBT1	Scm-like with four mbt domains 1	3.26E-10	No	No	Yes	No	No	No	No
4609	MYC	v-myc myelocytomatosis viral oncogene homolog (avian)	3.26E-10	Yes	No	Yes	No	No	Yes	Yes

28932	LOC283932	hypothetical LOC283932	3.39E-10	NA	No	No	Yes	No	No	No
84859	LRCH3	leucine-rich repeats and calponin homology (CH) domain containing 3	3.40E-10	No	Yes	Yes	No	No	No	No
11316	COPE	coatomer protein complex, subunit epsilon	3.41E-10	No	No	No	Yes	No	No	No
29956	LASS2	LAG1 homolog, ceramide synthase 2	3.41E-10	Yes	No	Yes	No	No	No	No
8416	ANXA9	annexin A9	3.41E-10	No	No	Yes	No	No	No	No
7712	ZNF157	zinc finger protein 157	3.43E-10	NA	No	No	No	No	No	No
51561	IL23A	interleukin 23, alpha subunit p19	3.49E-10	No	No	Yes	No	No	No	No
7084	TK2	thymidine kinase 2, mitochondrial	3.55E-10	Yes	No	Yes	No	No	No	No
11278	KLF12	Kruppel-like factor 12	3.65E-10	No	Yes	Yes	No	No	No	No
9659	PDE4DIP	phosphodiesterase 4D interacting protein (myomegalin)	3.68E-10	Yes	Yes	Yes	No	No	Yes	No
9447	AIM2	absent in melanoma 2	3.68E-10	No	No	No	No	Yes	No	No
10209	EIF1	eukaryotic translation initiation factor 1	3.68E-10	Yes	No	No	Yes	No	No	No
7403	UTX	ubiquitously transcribed tetratricopeptide repeat, X chromosome	3.78E-10	No	No	Yes	No	No	No	No
8621	CDC2L5	cell division cycle 2-like 5 (cholinesterase-related cell division controller)	3.82E-10	No	No	Yes	No	No	No	No
9738	CP110	CP110 protein	3.82E-10	No	No	No	Yes	No	No	No
5271	SERPINB8	serpin peptidase inhibitor, clade B (ovalbumin), member 8	3.82E-10	No	No	No	Yes	No	No	No
55144	LRRCB8	leucine rich repeat containing 8 family, member D	3.86E-10	Yes	No	No	No	No	No	No
5608	MAP2K6	mitogen-activated protein kinase 6	3.99E-10	No	No	Yes	No	No	No	No
51282	SCAND1	SCAN domain containing 1	4.06E-10	No	No	Yes	No	No	No	No
146542	ZNF688	zinc finger protein 688	4.09E-10	Yes	No	Yes	No	No	No	No
81620	CDT1	chromatin licensing and DNA replication factor 1	4.10E-10	No	No	Yes	No	No	No	No
55884	WSB2	WD repeat and SOCS box-containing 2	4.11E-10	No	No	Yes	No	No	No	No
129685	TAF8	TAF8 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 43kDa	4.16E-10	No	No	Yes	No	No	No	No
6518	SLC2A5	solute carrier family 2 (facilitated glucose/fructose transporter), member 5	4.23E-10	No	Yes	Yes	No	No	Yes	No
518	ATP5G3	ATP synthase, H+ transporting, mitochondrial FO complex, subunit C3 (subunit 9)	4.27E-10	No	No	Yes	No	No	No	No
64852	TUT1	terminal uridylyl transferase 1, U6 snRNA-specific	4.30E-10	No	No	No	Yes	No	No	No
9805	SCRN1	secernin 1	4.39E-10	No	No	Yes	No	No	No	No
153020	RASGEF1B	RasGEF domain family, member 1B	4.45E-10	No	No	No	No	Yes	Yes	No
9147	SDCCAG1	serologically defined colon cancer antigen 1	4.50E-10	Yes	No	No	Yes	No	No	No
678	ZFP36L2	zinc finger protein 36, C3H type-like 2	4.52E-10	Yes	No	No	Yes	No	No	No
4439	MSH5	mutS homolog 5 (E. coli)	4.57E-10	Yes	No	No	Yes	No	No	No
1192	CLIC1	chloride intracellular channel 1	4.57E-10	No	No	No	Yes	No	Yes	Yes
10471	PFDN6	prefoldin subunit 6	4.64E-10	No	No	Yes	No	No	No	No
390083	OR56A3	olfactory receptor, family 56, subfamily A, member 3	4.65E-10	NA	No	Yes	No	No	No	No

2904	GRIN2B	glutamate receptor, ionotropic, N-methyl D-aspartate 2B	4.65E-10	No	No	Yes	No	No	No	No
205428	C3orf58	chromosome 3 open reading frame 58	4.96E-10	Yes	No	Yes	No	No	No	No
329	BIRC2	baculoviral IAP repeat-containing 2	5.01E-10	No	No	Yes	No	No	Yes	No
7112	TMPO	thymopoietin	5.02E-10	No	No	Yes	No	No	No	No
7767	ZNF224	zinc finger protein 224	5.10E-10	Yes	No	Yes	No	No	Yes	No
81930	KIF18A	kinesin family member 18A	5.10E-10	No	No	Yes	No	No	No	No
146691	TOM1L2	target of myb1-like 2 (chicken)	5.14E-10	Yes	No	Yes	No	No	No	No
83450	LRRC48	leucine rich repeat containing 48	5.14E-10	No	No	Yes	No	No	No	No
151648	SGOL1	shugoshin-like 1 (S. pombe)	5.19E-10	No	No	Yes	No	No	No	No
1027	CDKN1B	cyclin-dependent kinase inhibitor 1B (p27, Kip1)	5.30E-10	Yes	No	No	Yes	No	Yes	Yes
4602	MYB	v-myb myeloblastosis viral oncogene homolog (avian)	5.31E-10	No	No	Yes	No	No	No	No
11183	MAP4K5	mitogen-activated protein kinase kinase kinase kinase 5	5.39E-10	No	No	No	Yes	No	No	No
22847	ZNF507	zinc finger protein 507	5.39E-10	No	No	No	No	Yes	No	No
1431	CS	citrate synthase	5.43E-10	No	No	Yes	No	No	No	No
25852	ARMC8	armadillo repeat containing 8	5.48E-10	Yes	No	No	Yes	No	No	No
50999	TMED5	transmembrane emp24 protein transport domain containing 5	5.51E-10	Yes	No	Yes	No	No	No	No
285696	FLJ34047	hypothetical protein FLJ34047	5.52E-10	NA	No	No	No	No	No	No
8970	HIST1H2BJ	histone cluster 1, H2bj	5.53E-10	No	No	Yes	No	No	Yes	No
90768	MGC45800	hypothetical protein LOC90768	5.67E-10	No	No	Yes	No	No	No	No
84549	MAK16	MAK16 homolog (S. cerevisiae)	5.70E-10	No	No	No	Yes	No	No	No
54865	GPATCH4	G patch domain containing 4	5.74E-10	Yes	No	Yes	No	No	No	No
1073	CFL2	cofilin 2 (muscle)	5.79E-10	No	No	Yes	No	No	No	No
339318	ZNF181	zinc finger protein 181	5.91E-10	Yes	No	No	Yes	No	No	No
8837	CFLAR	CASP8 and FADD-like apoptosis regulator	5.93E-10	Yes	No	Yes	No	No	No	No
933	CD22	CD22 molecule	5.98E-10	No	No	No	Yes	No	Yes	No
8078	USP5	ubiquitin specific peptidase 5 (isopeptidase T)	6.14E-10	No	No	No	Yes	No	No	No
83461	CDCA3	cell division cycle associated 3	6.14E-10	No	No	No	Yes	No	No	No
80025	PANK2	pantothenate kinase 2 (Hallervorden-Spatz syndrome)	6.52E-10	No	No	Yes	No	No	No	No
8289	ARID1A	AT rich interactive domain 1A (SWI-like)	6.54E-10	Yes	No	Yes	No	No	No	No
9400	RECOL5	RecQ protein-like 5	6.61E-10	No	Yes	No	No	Yes	No	No
60494	CCDC81	coiled-coil domain containing 81	6.66E-10	No	No	Yes	No	No	No	No
138724	C9orf131	chromosome 9 open reading frame 131	6.66E-10	No	No	No	Yes	No	No	No
84230	LRRC8C	leucine rich repeat containing 8 family, member C	6.69E-10	Yes	No	No	Yes	No	No	No
147015	DHRS13	dehydrogenase/reductase (SDR family) member 13	6.69E-10	Yes	No	No	Yes	No	No	No

6118	RPA2	replication protein A2, 32kDa	6.70E-10	No	No	Yes	No	No	No	No
10451	VAV3	vav 3 guanine nucleotide exchange factor	6.74E-10	Yes	No	Yes	No	No	No	No
3588	IL10RB	interleukin 10 receptor, beta	6.75E-10	Yes	Yes	Yes	No	No	Yes	Yes
57649	PHF12	PHD finger protein 12	6.76E-10	No	No	Yes	No	No	No	No
116448	OLIG1	oligodendrocyte transcription factor 1	6.80E-10	No	No	Yes	No	No	No	No
6293	VPS52	vacuolar protein sorting 52 homolog (S. cerevisiae)	6.85E-10	No	No	Yes	No	No	Yes	No
6222	RPS18	ribosomal protein S18	6.85E-10	No	No	Yes	No	No	Yes	No
56006	C19orf61	chromosome 19 open reading frame 61	6.94E-10	No	No	Yes	No	No	Yes	No
7091	TLE4	transducin-like enhancer of split 4 (E(sp1) homolog, Drosophila)	7.11E-10	Yes	No	Yes	No	No	No	No
608	TNFRSF17	tumor necrosis factor receptor superfamily, member 17	7.23E-10	No	No	Yes	No	No	No	No
143	PARP4	poly (ADP-ribose) polymerase family, member 4	7.27E-10	Yes	No	Yes	No	No	No	No
10916	MAGED2	melanoma antigen family D, 2	7.28E-10	No	No	Yes	No	No	No	No
944	TNFSF8	tumor necrosis factor (ligand) superfamily, member 8	7.28E-10	No	Yes	Yes	No	No	No	No
146330	FBXL16	F-box and leucine-rich repeat protein 16	7.45E-10	No	No	No	Yes	No	No	No
6386	SDCBP	syndecan binding protein (syntenin)	7.49E-10	No	No	Yes	No	No	Yes	No
4848	CNOT2	CCR4-NOT transcription complex, subunit 2	7.65E-10	No	Yes	Yes	No	No	No	No
2971	GTF3A	general transcription factor IIIA	7.66E-10	Yes	No	Yes	No	No	No	No
23210	JMJD6	jumonji domain containing 6	7.74E-10	Yes	No	Yes	No	No	No	No
81704	DOCK8	dedicator of cytokinesis 8	7.80E-10	Yes	No	Yes	No	No	Yes	No
53	ACP2	acid phosphatase 2, lysosomal	7.84E-10	No	No	No	Yes	No	Yes	No
4796	NFKBIL2	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor-like 2	7.98E-10	No	No	Yes	No	No	No	No
4299	AFF1	AF4/FMR2 family, member 1	8.00E-10	Yes	No	No	Yes	No	Yes	Yes
55159	RFWD3	ring finger and WD repeat domain 3	8.11E-10	No	No	Yes	No	No	No	No
5218	PFTK1	PFTAIRE protein kinase 1	8.17E-10	No	No	Yes	No	No	Yes	No
57405	SPC25	SPC25, NDC80 kinetochore complex component, homolog (S. cerevisiae)	8.42E-10	No	No	No	Yes	No	Yes	No
57818	G6PC2	glucose-6-phosphatase, catalytic, 2	8.42E-10	No	No	No	Yes	No	No	No
23451	SF3B1	splicing factor 3b, subunit 1, 155kDa	8.53E-10	No	No	No	Yes	No	Yes	No
220136	CCDC11	coiled-coil domain containing 11	8.56E-10	No	No	Yes	No	No	No	No
8573	CASK	calcium/calmodulin-dependent serine protein kinase (MAGUK family)	8.74E-10	Yes	No	Yes	No	No	No	No
5557	PRIM1	primase, DNA, polypeptide 1 (49kDa)	8.78E-10	No	No	Yes	No	No	No	No
5514	PPP1R10	protein phosphatase 1, regulatory (inhibitor) subunit 10	8.79E-10	No	No	Yes	No	No	Yes	No
6787	NEK4	NIMA (never in mitosis gene a)-related kinase 4	9.23E-10	No	No	Yes	No	No	No	No
3697	ITIH1	inter-alpha (globulin) inhibitor H1	9.23E-10	No	No	Yes	No	No	No	No
225	ABCD2	ATP-binding cassette, sub-family D (ALD), member 2	9.29E-10	Yes	No	Yes	No	No	Yes	No

84869	CBR4	carbonyl reductase 4	9.35E-10	No	No	Yes	No	No	No	No
5546	PRCC	papillary renal cell carcinoma (translocation-associated)	9.36E-10	No	No	No	No	No	No	No
8444	DYRK3	dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 3	9.36E-10	No	No	No	Yes	No	No	No
9592	IER2	immediate early response 2	9.36E-10	Yes	No	Yes	No	No	Yes	Yes
23382	AHCYL2	S-adenosylhomocysteine hydrolase-like 2	9.43E-10	Yes	No	Yes	No	No	Yes	No
22803	XRN2	5'-3' exonuclease 2	9.58E-10	No	No	Yes	No	No	No	No
8615	USO1	USO1 homolog, vesicle docking protein (yeast)	9.72E-10	Yes	No	Yes	No	No	Yes	No
84101	USP44	ubiquitin specific peptidase 44	9.76E-10	No	No	Yes	No	No	No	No
23433	RHOQ	ras homolog gene family, member Q	9.82E-10	No	No	Yes	No	No	No	No
55703	POLR3B	polymerase (RNA) III (DNA directed) polypeptide B	9.86E-10	No	No	Yes	No	No	No	No
3437	IFIT3	interferon-induced protein with tetratricopeptide repeats 3	9.96E-10	Yes	Yes	No	Yes	No	Yes	No
23478	SEC11A	SEC11 homolog A (S. cerevisiae)	1.01E-09	No	No	No	No	Yes	No	No
151613	TTC14	tetratricopeptide repeat domain 14	1.02E-09	Yes	No	Yes	No	No	No	No
29777	ABT1	activator of basal transcription 1	1.03E-09	No	No	Yes	No	No	Yes	No
83591	THAP2	THAP domain containing, apoptosis associated protein 2	1.04E-09	No	No	Yes	No	No	Yes	No
153129	SLC38A9	solute carrier family 38, member 9	1.04E-09	No	No	Yes	No	No	No	No
3775	KCNK1	potassium channel, subfamily K, member 1	1.05E-09	No	No	No	Yes	No	No	No
57125	PLXDC1	plexin domain containing 1	1.06E-09	No	No	No	Yes	No	No	No
146845	WDR16	WD repeat domain 16	1.06E-09	No	No	Yes	No	No	Yes	No
80830	APOL6	apolipoprotein L, 6	1.07E-09	Yes	No	Yes	No	No	Yes	No
80012	PHC3	polyhomeotic homolog 3 (Drosophila)	1.09E-09	Yes	No	Yes	No	No	No	No
10865	ARID5A	AT rich interactive domain 5A (MRF1-like)	1.11E-09	Yes	No	Yes	No	No	Yes	Yes
2124	EVI2B	ecotropic viral integration site 2B	1.12E-09	No	No	Yes	No	No	No	No
3344	FOXP2	forkhead box N2	1.14E-09	Yes	No	No	Yes	No	No	No
23043	TNIK	TRAF2 and NCK interacting kinase	1.16E-09	Yes	No	Yes	No	No	No	No
9349	RPL23	ribosomal protein L23	1.16E-09	No	No	Yes	No	No	No	No
55662	HIF1AN	hypoxia-inducible factor 1, alpha subunit inhibitor	1.16E-09	No	No	No	Yes	No	No	No
4714	NDUFB8	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 8, 19kDa	1.16E-09	No	No	No	Yes	No	No	No
220002	CYBASC3	cytochrome b, ascorbate dependent 3	1.18E-09	No	No	Yes	No	No	No	No
84792	MGC12966	hypothetical protein LOC84792	1.19E-09	No	No	Yes	No	No	No	No
10423	CDIPT	CDP-diacylglycerol-inositol 3-phosphatidyltransferase (phosphatidylinositol synthase)	1.21E-09	No	No	Yes	No	No	No	No
51645	PPIL1	peptidylprolyl isomerase (cyclophilin)-like 1	1.22E-09	No	No	Yes	No	No	Yes	No
55971	BAIAP2L1	BAI1-associated protein 2-like 1	1.22E-09	No	No	No	No	Yes	No	No
81894	SLC25A28	solute carrier family 25, member 28	1.22E-09	Yes	No	Yes	No	No	No	No

140890	SFRS12	splicing factor, arginine/serine-rich 12	1.23E-09	No	No	Yes	No	No	No	No
79735	TBC1D17	TBC1 domain family, member 17	1.25E-09	Yes	No	No	Yes	No	Yes	No
5868	RAB5A	RAB5A, member RAS oncogene family	1.25E-09	No	No	Yes	No	No	No	No
6461	SHB	Src homology 2 domain containing adaptor protein B	1.26E-09	Yes	No	Yes	No	No	No	No
2820	GPD2	glycerol-3-phosphate dehydrogenase 2 (mitochondrial)	1.28E-09	No	No	Yes	No	No	No	No
2857	GPR34	G protein-coupled receptor 34	1.29E-09	Yes	No	Yes	No	No	No	No
26999	CYFIP2	cytoplasmic FMR1 interacting protein 2	1.29E-09	No	No	No	Yes	No	No	No
79947	DHDDS	dehydrodolichyl diphosphate synthase	1.29E-09	No	Yes	No	Yes	No	No	No
23216	TBC1D1	TBC1 (tre-2/USP6, BUB2, cdc16) domain family, member 1	1.29E-09	No	No	No	No	Yes	No	No
92979	9-Mar	membrane-associated ring finger (C3HC4) 9	1.30E-09	Yes	No	No	Yes	No	No	No
1019	CDK4	cyclin-dependent kinase 4	1.30E-09	No	No	No	Yes	No	No	No
134266	GRPEL2	GrpE-like 2, mitochondrial (E. coli)	1.32E-09	No	No	Yes	No	No	No	No
83891	SNX25	sorting nexin 25	1.34E-09	Yes	No	Yes	No	No	No	No
5830	PEX5	peroxisomal biogenesis factor 5	1.39E-09	No	Yes	No	No	Yes	No	No
7593	MZF1	myeloid zinc finger 1	1.39E-09	Yes	No	No	No	No	No	No
6049	RNF6	ring finger protein (C3H2C3 type) 6	1.41E-09	No	No	No	Yes	No	Yes	No
4092	SMAD7	SMAD family member 7	1.45E-09	Yes	No	Yes	No	No	No	No
5833	UBAP2	ubiquitin associated protein 2	1.45E-09	No	No	Yes	No	No	No	No
81614	NIPA2	non imprinted in Prader-Willi/Angelman syndrome 2	1.45E-09	Yes	Yes	Yes	No	No	No	No
4082	MARCKS	myristoylated alanine-rich protein kinase C substrate	1.45E-09	Yes	Yes	No	Yes	No	Yes	Yes
5479	PPIB	peptidylprolyl isomerase B (cyclophilin B)	1.45E-09	No	No	Yes	No	No	No	No
1662	DDX10	DEAD (Asp-Glu-Ala-Asp) box polypeptide 10	1.45E-09	No	No	Yes	No	No	Yes	Yes
55904	MLL5	myeloid/lymphoid or mixed-lineage leukemia 5 (trithorax homolog, Drosophila)	1.48E-09	Yes	Yes	No	Yes	No	Yes	No
8193	DPF1	D4, zinc and double PHD fingers family 1	1.48E-09	Yes	No	No	Yes	No	No	No
5682	PSMA1	proteasome (prosome, macropain) subunit, alpha type, 1	1.56E-09	No	No	Yes	No	No	No	No
22849	CPEB3	cytoplasmic polyadenylation element binding protein 3	1.60E-09	No	No	No	Yes	No	Yes	No
3099	HK2	hexokinase 2	1.60E-09	Yes	No	No	Yes	No	No	No
6146	RPL22	ribosomal protein L22	1.65E-09	Yes	No	Yes	No	No	No	No
6418	SET	SET nuclear oncogene	1.65E-09	No	No	Yes	No	No	No	No
2005	ELK4	ELK4, ETS-domain protein (SRF accessory protein 1)	1.65E-09	No	No	Yes	No	No	No	No
54554	WDR5B	WD repeat domain 5B	1.67E-09	Yes	Yes	Yes	No	No	No	No
9043	SPAG9	sperm associated antigen 9	1.67E-09	No	No	No	Yes	No	Yes	No
51696	HECA	headcase homolog (Drosophila)	1.70E-09	No	No	Yes	No	No	No	No
51631	LUC7L2	LUC7-like 2 (S. cerevisiae)	1.70E-09	No	No	No	No	Yes	Yes	No

124540	MSI2	musashi homolog 2 (Drosophila)	1.73E-09	No	No	No	Yes	No	No	No
2864	FFAR1	free fatty acid receptor 1	1.79E-09	Yes	No	Yes	No	No	No	No
390152	OR8H3	olfactory receptor, family 8, subfamily H, member 3	1.80E-09	NA	No	Yes	No	No	No	No
1326	MAP3K8	mitogen-activated protein kinase kinase kinase 8	1.81E-09	No	No	Yes	No	No	Yes	No
643	CXCR5	chemokine (C-X-C motif) receptor 5	1.82E-09	Yes	No	No	Yes	No	No	No
84623	KIRREL3	kin of IRRE like 3 (Drosophila)	1.82E-09	No	No	Yes	No	No	No	No
136319	MTPN	myotrophin	1.82E-09	Yes	No	No	No	Yes	Yes	No
51574	LARP7	La ribonucleoprotein domain family, member 7	1.83E-09	No	No	Yes	No	No	No	No
55345	C4orf21	chromosome 4 open reading frame 21	1.83E-09	No	No	Yes	No	No	No	No
26001	RNF167	ring finger protein 167	1.83E-09	No	No	No	Yes	No	No	No
10927	SPIN1	spindlin 1	1.83E-09	No	No	Yes	No	No	Yes	No
81544	GDPD5	glycerophosphodiester phosphodiesterase domain containing 5	1.84E-09	No	No	Yes	No	No	No	No
54726	OTUD4	OTU domain containing 4	1.87E-09	No	No	No	No	Yes	No	No
55329	MNS1	meiosis-specific nuclear structural 1	1.88E-09	No	No	Yes	No	No	No	No
58478	ENOPH1	enolase-phosphatase 1	1.89E-09	No	No	Yes	No	No	No	No
6003	RGS13	regulator of G-protein signaling 13	1.92E-09	No	Yes	Yes	No	No	No	No
5393	EXOSC9	exosome component 9	1.93E-09	No	No	Yes	No	No	No	No
25	ABL1	c-abl oncogene 1, receptor tyrosine kinase	1.94E-09	No	No	No	Yes	No	No	No
6231	RPS26	ribosomal protein S26	1.95E-09	No	No	Yes	No	No	No	No
55170	PRMT6	protein arginine methyltransferase 6	1.96E-09	No	No	Yes	No	No	No	No
64745	METT11D1	methyltransferase 11 domain containing 1	1.97E-09	No	No	No	Yes	No	No	No
5828	PXMP3	peroxisomal membrane protein 3, 35kDa (Zellweger syndrome)	1.97E-09	No	No	Yes	No	No	No	No
7258	TSPY1	testis specific protein, Y-linked 1	2.02E-09	NA	No	No	No	Yes	No	No
692087	SNORD49B	small nucleolar RNA, C/D box 49B	2.04E-09	NA	No	Yes	No	No	No	No
8874	ARHGEF7	Rho guanine nucleotide exchange factor (GEF) 7	2.05E-09	No	No	Yes	No	No	Yes	No
1361	CPB2	carboxypeptidase B2 (plasma)	2.08E-09	No	No	Yes	No	No	No	No
54509	RHOF	ras homolog gene family, member F (in filopodia)	2.15E-09	Yes	No	Yes	No	No	Yes	No
989	SEPT7	septin 7	2.15E-09	No	No	Yes	No	No	No	No
11338	U2AF2	U2 small nuclear RNA auxiliary factor 2	2.16E-09	No	No	No	No	No	No	No
4490	MT1B	metallothionein 1B	2.17E-09	NA	No	No	Yes	No	No	No
10926	DBF4	DBF4 homolog (S. cerevisiae)	2.18E-09	No	No	Yes	No	No	No	No
55508	SLC35E3	solute carrier family 35, member E3	2.20E-09	No	No	Yes	No	No	No	No
10782	ZNF274	zinc finger protein 274	2.30E-09	Yes	No	No	Yes	No	No	No
8661	EIF3A	eukaryotic translation initiation factor 3, subunit A	2.30E-09	No	No	Yes	No	No	No	No

84881	RPUSD4	RNA pseudouridylylate synthase domain containing 4	2.31E-09	No	No	No	No	Yes	No	No
11198	SUPT16H	suppressor of Ty 16 homolog (S. cerevisiae)	2.34E-09	No	No	No	Yes	No	No	No
675	BRCA2	breast cancer 2, early onset	2.35E-09	No	No	Yes	No	No	No	No
80831	APOL5	apolipoprotein L, 5	2.35E-09	No	No	Yes	No	No	No	No
6617	SNAPC1	small nuclear RNA activating complex, polypeptide 1, 43kDa	2.36E-09	No	No	No	Yes	No	No	No
6714	SRC	v-src sarcoma (Schmidt-Ruppin A-2) viral oncogene homolog (avian)	2.38E-09	Yes	No	Yes	No	No	No	No
84437	KIAA1826	KIAA1826	2.38E-09	No	No	No	Yes	No	No	No
10116	FEM1B	fem-1 homolog b (C. elegans)	2.39E-09	No	No	No	No	No	Yes	No
133686	C5orf33	chromosome 5 open reading frame 33	2.41E-09	No	No	Yes	No	No	No	No
3455	IFNAR2	interferon (alpha, beta and omega) receptor 2	2.41E-09	Yes	Yes	Yes	No	No	No	No
153443	SRFBP1	serum response factor binding protein 1	2.45E-09	Yes	No	Yes	No	No	No	No
64591	TSPY2	testis specific protein, Y-linked 2	2.46E-09	No	No	No	No	Yes	No	No
952	CD38	CD38 molecule	2.49E-09	No	No	Yes	No	No	Yes	No
805	CALM2	calmodulin 2 (phosphorylase kinase, delta)	2.53E-09	No	No	No	No	Yes	No	No
89882	TPD52L3	tumor protein D52-like 3	2.56E-09	No	No	No	No	No	No	No
5201	PFDN1	prefoldin subunit 1	2.57E-09	No	No	Yes	No	No	No	No
401152	LOC401152	HCV F-transactivated protein 1	2.57E-09	No	No	No	No	Yes	Yes	No
4193	MDM2	Mdm2 p53 binding protein homolog (mouse)	2.58E-09	No	No	Yes	No	No	No	No
51191	HERC5	hect domain and RLD 5	2.58E-09	Yes	Yes	No	Yes	No	Yes	No
23366	KIAA0895	KIAA0895 protein	2.59E-09	No	No	Yes	No	No	No	No
9184	BUB3	BUB3 budding uninhibited by benzimidazoles 3 homolog (yeast)	2.62E-09	No	No	Yes	No	No	Yes	No
22913	RALY	RNA binding protein, autoantigenic (hnRNP-associated with lethal yellow homolog (mouse))	2.66E-09	Yes	No	Yes	No	No	Yes	No
84987	C12orf62	chromosome 12 open reading frame 62	2.71E-09	No	No	No	Yes	No	No	No
2665	GDI2	GDP dissociation inhibitor 2	2.75E-09	No	No	No	No	No	Yes	No
79573	TTC13	tetratricopeptide repeat domain 13	2.80E-09	No	No	Yes	No	No	Yes	No
393	ARHGAP4	Rho GTPase activating protein 4	2.80E-09	Yes	No	No	No	Yes	Yes	Yes
57532	NUFIP2	nuclear fragile X mental retardation protein interacting protein 2	2.81E-09	Yes	No	Yes	No	No	No	No
8910	SGCE	sarcoglycan, epsilon	2.82E-09	No	No	Yes	No	No	Yes	No
51768	TM7SF3	transmembrane 7 superfamily member 3	2.82E-09	Yes	No	Yes	No	No	Yes	No
9412	MED21	mediator complex subunit 21	2.82E-09	No	No	Yes	No	No	No	No
3024	HIST1H1A	histone cluster 1, H1a	2.85E-09	No	No	No	Yes	No	No	No
8350	HIST1H3A	histone cluster 1, H3a	2.85E-09	No	No	No	Yes	No	No	No
23184	MESDC2	mesoderm development candidate 2	2.86E-09	No	Yes	Yes	No	No	No	No
55582	KIF27	kinesin family member 27	2.96E-09	Yes	No	Yes	No	No	No	No

6653	SORL1	sortilin-related receptor, L(DLR class) A repeats-containing	2.98E-09	No	Yes	Yes	No	No	Yes	No
6228	RPS23	ribosomal protein S23	3.01E-09	No	No	Yes	No	No	No	No
22884	WDR37	WD repeat domain 37	3.01E-09	No	No	Yes	No	No	Yes	No
399900	LOC399900	hypothetical gene supported by AK093779	3.03E-09	No	No	Yes	No	No	Yes	No
4999	ORC2L	origin recognition complex, subunit 2-like (yeast)	3.03E-09	No	No	Yes	No	No	No	No
83855	KLF16	Kruppel-like factor 16	3.07E-09	Yes	No	No	No	No	No	No
10475	TRIM38	tripartite motif-containing 38	3.09E-09	Yes	No	Yes	No	No	Yes	Yes
26039	SS18L1	synovial sarcoma translocation gene on chromosome 18-like 1	3.10E-09	No	No	Yes	No	No	No	No
64744	SMAP2	stromal membrane-associated GTPase-activating protein 2	3.11E-09	Yes	No	No	No	No	No	No
6201	RPS7	ribosomal protein S7	3.11E-09	No	No	No	Yes	No	Yes	No
199745	THAP8	THAP domain containing 8	3.12E-09	No	No	Yes	No	No	No	No
10572	SIVA1	SIVA1, apoptosis-inducing factor	3.13E-09	No	No	No	Yes	No	No	No
8358	HIST1H3B	histone cluster 1, H3b	3.15E-09	No	No	Yes	No	No	Yes	No
10042	HMG2L1	high-mobility group protein 2-like 1	3.21E-09	No	No	Yes	No	No	No	No
55226	NAT10	N-acetyltransferase 10	3.23E-09	No	No	Yes	No	No	Yes	No
1435	CSF1	colony stimulating factor 1 (macrophage)	3.29E-09	No	No	No	Yes	No	No	No
9304	SNORD22	small nucleolar RNA, C/D box 22	3.34E-09	NA	No	Yes	No	No	No	No
160518	MGC24039	hypothetical protein MGC24039	3.37E-09	Yes	No	Yes	No	No	No	No
226	ALDOA	aldolase A, fructose-bisphosphate	3.44E-09	No	No	No	No	Yes	No	No
140738	TMEM37	transmembrane protein 37	3.48E-09	Yes	No	Yes	No	No	No	No
84888	SPPL2A	signal peptide peptidase-like 2A	3.48E-09	No	No	Yes	No	No	No	No
11083	DIDO1	death inducer-obliterator 1	3.49E-09	Yes	No	Yes	No	No	No	No
254065	BRWD3	bromodomain and WD repeat domain containing 3	3.50E-09	No	No	Yes	No	No	No	No
7637	ZNF84	zinc finger protein 84	3.51E-09	Yes	No	No	No	Yes	No	No
3422	IDI1	isopentenyl-diphosphate delta isomerase 1	3.52E-09	No	No	Yes	No	No	Yes	No
4283	CXCL9	chemokine (C-X-C motif) ligand 9	3.54E-09	No	No	Yes	No	No	No	No
10735	STAG2	stromal antigen 2	3.54E-09	No	No	No	No	No	No	No
9441	MED26	mediator complex subunit 26	3.56E-09	Yes	No	No	No	No	No	No
51082	POLR1D	polymerase (RNA) I polypeptide D, 16kDa	3.58E-09	No	No	No	No	Yes	Yes	No
222484	LN2	ligand of numb-protein X 2	3.58E-09	No	No	No	No	Yes	Yes	No
80345	ZSCAN16	zinc finger and SCAN domain containing 16	3.59E-09	No	No	Yes	No	No	No	No
4325	MMP16	matrix metalloproteinase 16 (membrane-inserted)	3.62E-09	Yes	No	Yes	No	No	No	No
29893	PSMC3IP	PSMC3 interacting protein	3.63E-09	No	No	No	No	Yes	No	No
201725	LOC201725	hypothetical protein LOC201725	3.69E-09	No	No	Yes	No	No	No	No

10170	DHRS9	dehydrogenase/reductase (SDR family) member 9	3.71E-09	No	No	No	No	Yes	No	No
640	BLK	B lymphoid tyrosine kinase	3.71E-09	Yes	No	Yes	No	No	Yes	Yes
79140	CCDC28B	coiled-coil domain containing 28B	3.72E-09	No	No	No	No	No	No	No
55693	JMJD2D	jumonji domain containing 2D	3.72E-09	No	No	Yes	No	No	No	No
246329	STAC3	SH3 and cysteine rich domain 3	3.74E-09	No	No	No	Yes	No	No	No
7716	VEZF1	vascular endothelial zinc finger 1	3.75E-09	No	No	Yes	No	No	No	No
3326	HSP90AB1	heat shock protein 90kDa alpha (cytosolic), class B member 1	3.78E-09	No	No	No	Yes	No	Yes	Yes
4300	MLLT3	myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); translocated to, 3	3.78E-09	No	No	No	Yes	No	Yes	No
79913	ACTR5	ARP5 actin-related protein 5 homolog (yeast)	3.85E-09	No	No	Yes	No	No	No	No
23376	KIAA0776	KIAA0776	3.86E-09	No	No	Yes	No	No	No	No
1656	DDX6	DEAD (Asp-Glu-Ala-Asp) box polypeptide 6	3.88E-09	No	No	Yes	No	No	Yes	No
29980	DONSON	downstream neighbor of SON	3.89E-09	No	No	Yes	No	No	No	No
7465	WEE1	WEE1 homolog (S. pombe)	3.89E-09	No	Yes	Yes	No	No	Yes	No
10010	TANK	TRAF family member-associated NFKB activator	3.90E-09	No	No	Yes	No	No	No	No
1213	CLTC	clathrin, heavy chain (Hc)	3.97E-09	No	No	Yes	No	No	Yes	No
200844	C3orf67	chromosome 3 open reading frame 67	3.98E-09	No	Yes	No	Yes	No	No	No
55082	ARGLU1	arginine and glutamate rich 1	3.99E-09	No	No	Yes	No	No	No	No
3157	HMGCS1	3-hydroxy-3-methylglutaryl-Coenzyme A synthase 1 (soluble)	4.05E-09	Yes	No	Yes	No	No	No	No
64110	MAGEF1	melanoma antigen family F, 1	4.08E-09	No	No	Yes	No	No	Yes	No
6091	ROBO1	roundabout, axon guidance receptor, homolog 1 (Drosophila)	4.12E-09	No	No	Yes	No	No	No	No
151188	ARL6IP6	ADP-ribosylaton-like factor 6 interacting protein 6	4.12E-09	No	No	Yes	No	No	No	No
8818	DPM2	dolichyl-phosphate mannosyltransferase polypeptide 2, regulatory subunit	4.13E-09	No	No	No	Yes	No	No	No
953	ENTPD1	ectonucleoside triphosphate diphosphohydrolase 1	4.14E-09	Yes	Yes	No	Yes	No	No	No
51103	NDUFAF1	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, assembly factor 1	4.15E-09	No	No	Yes	No	No	No	No
319100	TAAR6	trace amine associated receptor 6	4.17E-09	NA	No	Yes	No	No	No	No
7016	TESK1	testis-specific kinase 1	4.17E-09	No	No	No	No	No	No	No
10078	TSSC4	tumor suppressing subtransferable candidate 4	4.20E-09	No	No	No	Yes	No	No	No
2934	GSN	gelsolin (amyloidosis, Finnish type)	4.24E-09	Yes	No	Yes	No	No	No	No
2961	GTF2E2	general transcription factor IIE, polypeptide 2, beta 34kDa	4.26E-09	No	No	Yes	No	No	No	No
5429	POLH	polymerase (DNA directed), eta	4.26E-09	No	No	Yes	No	No	Yes	No
2060	EPS15	epidermal growth factor receptor pathway substrate 15	4.28E-09	No	Yes	Yes	No	No	No	No
7482	WNT2B	wingless-type MMTV integration site family, member 2B	4.34E-09	No	No	No	Yes	No	No	No
199870	FAM76A	family with sequence similarity 76, member A	4.40E-09	No	No	No	Yes	No	No	No
9734	HDAC9	histone deacetylase 9	4.47E-09	No	No	Yes	No	No	Yes	No

283459	GATC	glutamyl-tRNA(Gln) amidotransferase, subunit C homolog (bacterial)	4.48E-09	NA	No	No	No	Yes	No	No
152579	SCFD2	sec1 family domain containing 2	4.49E-09	No	No	Yes	No	No	Yes	No
25840	METTL7A	methyltransferase like 7A	4.54E-09	No	No	No	Yes	No	Yes	No
5873	RAB27A	RAB27A, member RAS oncogene family	4.58E-09	Yes	No	Yes	No	No	No	No
10150	MBNL2	muscleblind-like 2 (Drosophila)	4.62E-09	No	No	Yes	No	No	No	No
54465	ETAA1	Ewing tumor-associated antigen 1	4.63E-09	No	No	No	Yes	No	No	No
1849	DUSP7	dual specificity phosphatase 7	4.70E-09	Yes	No	Yes	No	No	Yes	Yes
78996	C7orf49	chromosome 7 open reading frame 49	4.70E-09	No	No	Yes	No	No	No	No
11099	PTPN21	protein tyrosine phosphatase, non-receptor type 21	4.76E-09	Yes	No	Yes	No	No	No	No
4139	MARK1	MAP/microtubule affinity-regulating kinase 1	4.78E-09	Yes	No	Yes	No	No	No	No
92610	TIFA	TRAF-interacting protein with forkhead-associated domain	4.78E-09	No	No	Yes	No	No	No	No
80829	ZFP91	zinc finger protein 91 homolog (mouse)	4.78E-09	Yes	No	No	Yes	No	No	No
6045	RNF2	ring finger protein 2	4.80E-09	Yes	No	No	Yes	No	No	No
153684	LOC153684	hypothetical LOC153684	4.84E-09	Yes	No	Yes	No	No	No	No
23154	NCDN	neurochondrin	4.84E-09	No	No	Yes	No	No	No	No
10915	TCERG1	transcription elongation regulator 1	4.86E-09	No	No	Yes	No	No	No	No
2745	GLRX	glutaredoxin (thioltransferase)	4.94E-09	No	No	No	No	Yes	No	No
79917	MAGIX	MAGI family member, X-linked	4.98E-09	Yes	No	Yes	No	No	No	No
10632	ATP5L	ATP synthase, H+ transporting, mitochondrial F0 complex, subunit G	4.98E-09	No	No	Yes	No	No	No	No
401253	FLJ43752	FLJ43752 protein	4.99E-09	NA	No	No	Yes	No	No	No
51324	SPG21	spastic paraplegia 21 (autosomal recessive, Mast syndrome)	5.00E-09	No	No	No	Yes	No	No	No
55236	UBA6	ubiquitin-like modifier activating enzyme 6	5.07E-09	No	No	Yes	No	No	Yes	No
8934	RAB7L1	RAB7, member RAS oncogene family-like 1	5.07E-09	Yes	No	No	Yes	No	Yes	Yes
26225	ARL5A	ADP-ribosylation factor-like 5A	5.08E-09	No	No	No	Yes	No	No	No
3093	UBE2K	ubiquitin-conjugating enzyme E2K (UBC1 homolog, yeast)	5.11E-09	No	No	Yes	No	No	No	No
151050	C2orf67	chromosome 2 open reading frame 67	5.16E-09	No	No	Yes	No	No	No	No
10409	BASP1	brain abundant, membrane attached signal protein 1	5.17E-09	No	Yes	Yes	No	No	Yes	No
29916	SNX11	sorting nexin 11	5.17E-09	No	No	No	Yes	No	No	No
6309	SC5DL	sterol-C5-desaturase (ERG3 delta-5-desaturase homolog, S. cerevisiae)-like	5.22E-09	No	No	No	Yes	No	Yes	No
4205	MEF2A	myocyte enhancer factor 2A	5.22E-09	Yes	No	Yes	No	No	No	No
4069	LYZ	lysozyme (renal amyloidosis)	5.26E-09	No	No	No	Yes	No	No	No
7050	TGIF1	TGFB-induced factor homeobox 1	5.27E-09	Yes	No	Yes	No	No	No	No
10143	CLEC3A	C-type lectin domain family 3, member A	5.29E-09	No	No	Yes	No	No	No	No
10238	WDR68	WD repeat domain 68	5.32E-09	No	No	Yes	No	No	Yes	No

5530	PPP3CA	protein phosphatase 3 (formerly 2B), catalytic subunit, alpha isoform	5.37E-09	Yes	No	Yes	No	No	No	No
257364	SNX33	sorting nexin 33	5.44E-09	No	No	No	Yes	No	No	No
55272	IMP3	IMP3, U3 small nucleolar ribonucleoprotein, homolog (yeast)	5.44E-09	No	No	No	Yes	No	No	No
9063	PIAS2	protein inhibitor of activated STAT, 2	5.48E-09	Yes	No	No	Yes	No	No	No
285016	FAM150B	family with sequence similarity 150, member B	5.52E-09	No	No	No	Yes	No	No	No
3217	HOXB7	homeobox B7	5.57E-09	No	No	Yes	No	No	No	No
34	ACADM	acyl-Coenzyme A dehydrogenase, C-4 to C-12 straight chain	5.62E-09	No	No	Yes	No	No	No	No
127124	ATP6V1G3	ATPase, H+ transporting, lysosomal 13kDa, V1 subunit G3	5.62E-09	No	No	No	No	Yes	No	No
255488	RNF144B	ring finger 144B	5.68E-09	No	No	Yes	No	No	No	No
3187	HNRNPH1	heterogeneous nuclear ribonucleoprotein H1 (H)	5.73E-09	No	No	No	Yes	No	No	No
1995	ELAVL3	ELAV (embryonic lethal, abnormal vision, Drosophila)-like 3 (Hu antigen C)	5.73E-09	No	No	No	Yes	No	No	No
10575	CCT4	chaperonin containing TCP1, subunit 4 (delta)	5.74E-09	No	No	No	Yes	No	No	No
55167	MSL2L1	male-specific lethal 2-like 1 (Drosophila)	5.81E-09	No	No	Yes	No	No	No	No
1773	DNASE1	deoxyribonuclease I	5.85E-09	No	Yes	Yes	No	No	No	No
4792	NFKBIA	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, alpha	5.89E-09	Yes	No	No	Yes	No	No	No
3073	HEXA	hexosaminidase A (alpha polypeptide)	6.00E-09	Yes	No	No	No	Yes	No	No
7175	TPR	translocated promoter region (to activated MET oncogene)	6.04E-09	No	No	Yes	No	No	No	No
80310	PDGFD	platelet derived growth factor D	6.11E-09	No	No	Yes	No	No	No	No
9846	GAB2	GRB2-associated binding protein 2	6.11E-09	Yes	No	No	No	No	No	No
79682	MLF1IP	MLF1 interacting protein	6.15E-09	No	No	Yes	No	No	No	No
94059	LENG9	leukocyte receptor cluster (LRC) member 9	6.15E-09	No	No	No	Yes	No	Yes	No
9852	EPM2AIP1	EPM2A (taforin) interacting protein 1	6.17E-09	No	No	Yes	No	No	Yes	No
56339	METTL3	methyltransferase like 3	6.17E-09	Yes	No	Yes	No	No	Yes	No
84455	EFCAB7	EF-hand calcium binding domain 7	6.22E-09	No	No	Yes	No	No	Yes	No
2313	FLI1	Friend leukemia virus integration 1	6.27E-09	Yes	No	No	No	No	No	No
10487	CAP1	CAP, adenylate cyclase-associated protein 1 (yeast)	6.27E-09	No	No	Yes	No	No	Yes	No
51599	LSR	lipolysis stimulated lipoprotein receptor	6.34E-09	No	No	Yes	No	No	No	No
10861	SLC26A1	solute carrier family 26 (sulfate transporter), member 1	6.45E-09	No	No	No	No	Yes	No	No
84878	ZBTB45	zinc finger and BTB domain containing 45	6.74E-09	No	No	No	Yes	No	No	No
4335	MNT	MAX binding protein	6.84E-09	Yes	No	No	No	No	No	No
134864	TAAR1	trace amine associated receptor 1	7.00E-09	No	No	Yes	No	No	No	No
55325	UFSP2	UFM1-specific peptidase 2	7.02E-09	No	No	No	Yes	No	No	No
23608	MKRN1	makorin, ring finger protein, 1	7.06E-09	No	No	Yes	No	No	No	No
54407	SLC38A2	solute carrier family 38, member 2	7.11E-09	Yes	Yes	No	Yes	No	Yes	No

124997	WDR81	WD repeat domain 81	7.16E-09	Yes	No	No	Yes	No	No	No	No
112399	EGLN3	egl nine homolog 3 (C. elegans)	7.26E-09	No	No	Yes	No	No	No	No	No
25841	ABTB2	ankyrin repeat and BTB (POZ) domain containing 2	7.26E-09	Yes	No	Yes	No	No	Yes	No	No
53635	PTOV1	prostate tumor overexpressed gene 1	7.31E-09	No	No	No	Yes	No	No	No	No
9741	LAPTM4A	lysosomal-associated protein transmembrane 4 alpha	7.38E-09	Yes	No	Yes	No	No	No	No	No
374659	HDDC3	HD domain containing 3	7.42E-09	No	No	Yes	No	No	No	No	No
5093	PCBP1	poly(rC) binding protein 1	7.43E-09	No	No	Yes	No	No	No	No	No
7404	UTY	ubiquitously transcribed tetratricopeptide repeat gene, Y-linked	7.44E-09	No	No	Yes	No	No	No	No	No
387790	LOC387790	hypothetical LOC387790	7.44E-09	Yes	No	No	No	Yes	No	No	No
5612	PRKRIR	protein-kinase, interferon-inducible double stranded RNA dependent inhibitor, repressor of (P58 repressor)	7.44E-09	No	No	No	No	Yes	No	No	No
4756	NEO1	neogenin homolog 1 (chicken)	7.65E-09	No	No	Yes	No	No	No	No	No
8899	PRPF4B	PRP4 pre-mRNA processing factor 4 homolog B (yeast)	7.66E-09	No	No	No	No	Yes	No	No	No
6789	STK4	serine/threonine kinase 4	7.67E-09	Yes	No	Yes	No	No	No	No	No
91754	NEK9	NIMA (never in mitosis gene a)- related kinase 9	7.67E-09	No	No	Yes	No	No	No	No	No
85397	RGS8	regulator of G-protein signaling 8	7.70E-09	No	No	No	Yes	No	No	No	No
28976	ACAD9	acyl-Coenzyme A dehydrogenase family, member 9	7.70E-09	Yes	No	Yes	No	No	No	No	No
55567	DNAH3	dynein, axonemal, heavy chain 3	7.79E-09	No	No	No	Yes	No	No	No	No
8675	STX16	syntaxin 16	7.83E-09	No	No	Yes	No	No	No	No	No
11010	GLIPR1	GLI pathogenesis-related 1 (glioma)	7.83E-09	Yes	No	No	No	Yes	No	No	No
130940	CCDC148	coiled-coil domain containing 148	7.94E-09	No	No	Yes	No	No	No	No	No
5336	PLCG2	phospholipase C, gamma 2 (phosphatidylinositol-specific)	8.06E-09	No	No	Yes	No	No	No	No	No
3148	HMGB2	high-mobility group box 2	8.07E-09	No	No	No	Yes	No	No	No	No
137695	TMEM68	transmembrane protein 68	8.09E-09	No	No	Yes	No	No	Yes	No	No
55669	MFN1	mitofusin 1	8.14E-09	No	No	Yes	No	No	No	No	No
1152	CKB	creatine kinase, brain	8.14E-09	No	No	No	No	No	No	No	No
23394	ADNP	activity-dependent neuroprotector homeobox	8.18E-09	No	No	No	Yes	No	No	No	No
57609	DIP2B	DIP2 disco-interacting protein 2 homolog B (Drosophila)	8.19E-09	Yes	Yes	Yes	No	No	No	No	No
388732	C1orf132	chromosome 1 open reading frame 132	8.20E-09	NA	No	Yes	No	No	No	No	No
58505	DC2	DC2 protein	8.31E-09	No	No	Yes	No	No	No	No	No
51684	SUFU	suppressor of fused homolog (Drosophila)	8.34E-09	Yes	No	Yes	No	No	Yes	No	No
10121	ACTR1A	ARP1 actin-related protein 1 homolog A, contractin alpha (yeast)	8.34E-09	No	No	Yes	No	No	Yes	No	No
150538	FLJ32063	hypothetical protein LOC150538	8.54E-09	NA	No	Yes	No	No	No	No	No
9487	PIGL	phosphatidylinositol glycan anchor biosynthesis, class L	8.64E-09	No	No	Yes	No	No	No	No	No
9611	NCOR1	nuclear receptor co-repressor 1	8.64E-09	No	No	Yes	No	No	No	No	No

5534	PPP3R1	protein phosphatase 3 (formerly 2B), regulatory subunit B, alpha isoform	1.09E-08	Yes	No	Yes	No	No	Yes	No
5925	RB1	retinoblastoma 1 (including osteosarcoma)	1.09E-08	No	No	No	Yes	No	No	No
8801	SUCLG2	succinate-CoA ligase, GDP-forming, beta subunit	1.11E-08	Yes	Yes	Yes	No	No	No	No
55892	MYNN	myoneurin	1.12E-08	No	No	No	Yes	No	Yes	No
84517	ARPM1	actin related protein M1	1.12E-08	No	No	Yes	No	No	Yes	No
9426	CDY2A	chromodomain protein, Y-linked, 2A	1.12E-08	NA	No	Yes	No	No	No	No
6713	SQLE	squalene epoxidase	1.14E-08	No	No	Yes	No	No	No	No
23111	SPG20	spastic paraplegia 20 (Troyer syndrome)	1.14E-08	Yes	No	Yes	No	No	No	No
10112	KIF20A	kinesin family member 20A	1.15E-08	No	No	Yes	No	No	Yes	No
6830	SUPT6H	suppressor of Ty 6 homolog (S. cerevisiae)	1.16E-08	No	No	Yes	No	No	Yes	No
3592	IL12A	interleukin 12A (natural killer cell stimulatory factor 1, cytotoxic lymphocyte maturation factor 1, p35)	1.16E-08	No	No	Yes	No	No	No	No
29940	DSE	dermatan sulfate epimerase	1.19E-08	Yes	Yes	Yes	No	No	No	No
9342	SNAP29	synaptosomal-associated protein, 29kDa	1.19E-08	No	No	Yes	No	No	No	No
8773	SNAP23	synaptosomal-associated protein, 23kDa	1.19E-08	No	Yes	No	Yes	No	No	No
9868	TOMM70A	translocase of outer mitochondrial membrane 70 homolog A (S. cerevisiae)	1.21E-08	No	Yes	Yes	No	No	No	No
3667	IRS1	insulin receptor substrate 1	1.22E-08	No	No	Yes	No	No	No	No
51321	AMZ2	archaealysin family metalloproteinase 2	1.23E-08	No	No	Yes	No	No	No	No
120939	C12orf59	chromosome 12 open reading frame 59	1.24E-08	No	No	Yes	No	No	No	No
253943	YTHDF3	YTH domain family, member 3	1.24E-08	No	No	Yes	No	No	No	No
387496	RASL11A	RAS-like, family 11, member A	1.26E-08	No	No	Yes	No	No	No	No
64975	MRPL41	mitochondrial ribosomal protein L41	1.27E-08	No	No	Yes	No	No	No	No
5771	PTPN2	protein tyrosine phosphatase, non-receptor type 2	1.28E-08	Yes	No	Yes	No	No	No	No
644	BLVRA	biliverdin reductase A	1.28E-08	Yes	No	No	Yes	No	No	No
3181	HNRNPA2B1	heterogeneous nuclear ribonucleoprotein A2/B1	1.28E-08	No	No	Yes	No	No	Yes	No
9948	WDR1	WD repeat domain 1	1.30E-08	No	No	Yes	No	No	Yes	No
7707	ZNF148	zinc finger protein 148	1.30E-08	No	No	No	Yes	No	No	No
84750	FUT10	fucosyltransferase 10 (alpha (1,3) fucosyltransferase)	1.30E-08	No	No	No	Yes	No	No	No
284348	LYPD5	LY6/PLAUR domain containing 5	1.33E-08	No	No	No	No	Yes	No	No
337867	UBAC2	UBA domain containing 2	1.34E-08	Yes	No	No	No	Yes	No	No
6285	S100B	S100 calcium binding protein B	1.35E-08	Yes	No	Yes	No	No	No	No
6903	TBCC	tubulin folding cofactor C	1.36E-08	No	No	No	Yes	No	No	No
10902	BRD8	bromodomain containing 8	1.37E-08	No	No	No	Yes	No	Yes	No
55781	RIOK2	RIO kinase 2 (yeast)	1.37E-08	No	No	Yes	No	No	No	No
1318	SLC31A2	solute carrier family 31 (copper transporters), member 2	1.37E-08	Yes	No	Yes	No	No	No	No

4089	SMAD4	SMAD family member 4	1.38E-08	No	No	Yes	No	No	Yes	No
6890	TAP1	transporter 1, ATP-binding cassette, sub-family B (MDR/TAP)	1.39E-08	Yes	No	Yes	No	No	Yes	Yes
55830	GLT8D1	glycosyltransferase 8 domain containing 1	1.39E-08	Yes	Yes	Yes	No	No	No	No
5017	OVOL1	ovo-like 1 (Drosophila)	1.41E-08	No	No	No	Yes	No	No	No
79759	ZNF668	zinc finger protein 668	1.41E-08	Yes	No	No	Yes	No	No	No
27189	IL17C	interleukin 17C	1.41E-08	No	No	No	Yes	No	No	No
64343	AZI2	5-azacytidine induced 2	1.42E-08	No	No	No	Yes	No	Yes	No
56033	BARX1	BARX homeobox 1	1.44E-08	No	No	No	No	No	No	No
5701	PSMC2	proteasome (prosome, macropain) 26S subunit, ATPase, 2	1.45E-08	No	No	Yes	No	No	Yes	No
122742	OR4L1	olfactory receptor, family 4, subfamily L, member 1	1.46E-08	NA	No	No	Yes	No	No	No
26269	FBX08	F-box protein 8	1.46E-08	No	No	Yes	No	No	Yes	No
388591	RNF207	ring finger protein 207	1.51E-08	No	No	No	Yes	No	No	No
10283	SDCCAG10	serologically defined colon cancer antigen 10	1.53E-08	Yes	No	Yes	No	No	No	No
285672	SFRS12IP1	SFRS12-interacting protein 1	1.53E-08	No	No	Yes	No	No	No	No
10654	PMVK	phosphomevalonate kinase	1.53E-08	No	No	Yes	No	No	No	No
10606	PAICS	phosphoribosylaminoimidazole carboxylase, phosphoribosylaminoimidazole succinocarboxamide synthetase	1.53E-08	No	No	No	Yes	No	No	No
16	AARS	alanyl-tRNA synthetase	1.58E-08	No	No	Yes	No	No	No	No
11269	DDX19B	DEAD (Asp-Glu-Ala-As) box polypeptide 19B	1.58E-08	No	No	Yes	No	No	No	No
29887	SNX10	sorting nexin 10	1.58E-08	No	No	Yes	No	No	No	No
27044	SND1	staphylococcal nuclease and tudor domain containing 1	1.59E-08	Yes	No	No	No	Yes	No	No
7874	USP7	ubiquitin specific peptidase 7 (herpes virus-associated)	1.60E-08	No	No	Yes	No	No	No	No
841	CASP8	caspase 8, apoptosis-related cysteine peptidase	1.60E-08	Yes	No	Yes	No	No	Yes	Yes
27309	ZNF330	zinc finger protein 330	1.61E-08	No	No	Yes	No	No	No	No
201562	PTPLB	protein tyrosine phosphatase-like (proline instead of catalytic arginine), member b	1.61E-08	No	No	Yes	No	No	Yes	No
389206	CCDC4	coiled-coil domain containing 4	1.63E-08	Yes	No	Yes	No	No	No	No
1031	CDKN2C	cyclin-dependent kinase inhibitor 2C (p18, inhibits CDK4)	1.63E-08	No	No	Yes	No	No	No	No
6732	SRPK1	SFRS protein kinase 1	1.63E-08	No	No	Yes	No	No	No	No
7378	UPP1	uridine phosphorylase 1	1.64E-08	Yes	No	Yes	No	No	No	No
51312	SLC25A37	solute carrier family 25, member 37	1.64E-08	No	No	Yes	No	No	No	No
11103	KRR1	KRR1, small subunit (SSU) processome component, homolog (yeast)	1.65E-08	Yes	No	Yes	No	No	No	No
3833	KIFC1	kinesin family member C1	1.65E-08	No	No	Yes	No	No	No	No
493869	GPX8	glutathione peroxidase 8	1.67E-08	No	No	No	Yes	No	No	No
6603	SMARCD2	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily d, member 2	1.68E-08	No	No	No	Yes	No	No	No
81565	NDEL1	nudE nuclear distribution gene E homolog (A. nidulans)-like 1	1.71E-08	Yes	No	Yes	No	No	No	No

115704	EV15L	ecotropic viral integration site 5-like	1.72E-08	No	No	No	No	Yes	Yes	No
130026	ICA1L	islet cell autoantigen 1,69kDa-like	1.74E-08	No	No	Yes	No	No	No	No
130162	C2orf63	chromosome 2 open reading frame 63	1.77E-08	No	Yes	No	Yes	No	No	No
2773	GNAI3	guanine nucleotide binding protein (G protein), alpha inhibiting activity polypeptide 3	1.77E-08	No	No	No	No	Yes	No	No
256586	LYSMD2	LysM, putative peptidoglycan-binding, domain containing 2	1.77E-08	No	No	No	No	No	No	No
55013	CCDC109B	coiled-coil domain containing 109B	1.78E-08	No	No	Yes	No	No	No	No
5101	PCDH9	protocadherin 9	1.78E-08	Yes	No	Yes	No	No	Yes	Yes
11326	VSIG4	V-set and immunoglobulin domain containing 4	1.79E-08	No	No	No	Yes	No	No	No
4835	NQO2	NAD(P)H dehydrogenase, quinone 2	1.79E-08	No	No	No	Yes	No	Yes	No
10434	LYPLA1	lysophospholipase 1	1.80E-08	No	No	Yes	No	No	No	No
1984	EIF5A	eukaryotic translation initiation factor 5A	1.81E-08	Yes	No	Yes	No	No	No	No
54880	BCOR	BCL6 co-repressor	1.84E-08	No	No	Yes	No	No	No	No
7328	UBE2H	ubiquitin-conjugating enzyme E2H (UBC8 homolog, yeast)	1.84E-08	Yes	No	Yes	No	No	No	No
84062	DTNBP1	dystrobrevin binding protein 1	1.86E-08	Yes	No	No	Yes	No	No	No
10254	STAM2	signal transducing adaptor molecule (SH3 domain and ITAM motif) 2	1.86E-08	No	No	Yes	No	No	Yes	No
51566	ARMCX3	armadillo repeat containing, X-linked 3	1.90E-08	Yes	No	No	Yes	No	No	No
54470	ARMCX6	armadillo repeat containing, X-linked 6	1.90E-08	No	No	No	Yes	No	No	No
3981	LIG4	ligase IV, DNA, ATP-dependent	1.90E-08	No	No	Yes	No	No	No	No
7763	ZFAND5	zinc finger, AN1-type domain 5	1.91E-08	No	No	Yes	No	No	Yes	No
27067	STAU2	staufen, RNA binding protein, homolog 2 (Drosophila)	1.92E-08	No	No	Yes	No	No	No	No
10659	CUGBP2	CUG triplet repeat, RNA binding protein 2	1.93E-08	Yes	Yes	Yes	No	No	No	No
81611	ANP32E	acidic (leucine-rich) nuclear phosphoprotein 32 family, member E	1.94E-08	No	No	Yes	No	No	No	No
5533	PPP3CC	protein phosphatase 3 (formerly 2B), catalytic subunit, gamma isoform	1.98E-08	No	No	Yes	No	No	No	No
6038	RNASE4	ribonuclease, RNase A family, 4	1.98E-08	Yes	No	No	Yes	No	Yes	No
6929	TCF3	transcription factor 3 (E2A immunoglobulin enhancer binding factors E12/E47)	1.98E-08	No	No	No	Yes	No	No	No
5991	RFX3	regulatory factor X, 3 (influences HLA class II expression)	1.99E-08	No	No	Yes	No	No	Yes	No
23338	PHF15	PHD finger protein 15	2.00E-08	No	No	Yes	No	No	No	No
5281	PIGF	phosphatidylinositol glycan anchor biosynthesis, class F	2.01E-08	No	No	Yes	No	No	Yes	No
115861	NXNL1	nucleoredoxin-like 1	2.01E-08	Yes	No	No	Yes	No	No	No
376497	SLC27A1	solute carrier family 27 (fatty acid transporter), member 1	2.01E-08	No	No	No	Yes	No	No	No
7832	BTG2	BTG family, member 2	2.01E-08	No	No	Yes	No	No	Yes	Yes
9175	MAP3K13	mitogen-activated protein kinase kinase kinase 13	2.01E-08	Yes	No	Yes	No	No	No	No
54469	ZFAND6	zinc finger, AN1-type domain 6	2.06E-08	NA*	Yes	Yes	No	No	No	No
84674	CARD6	caspase recruitment domain family, member 6	2.07E-08	Yes	No	No	Yes	No	No	No

6167	RPL37	ribosomal protein L37	2.07E-08	No	No	No	Yes	No	Yes	No
200576	PIP5K3	phosphatidylinositol-3-phosphate/phosphatidylinositol 5-kinase, type III	2.07E-08	Yes	No	No	No	Yes	No	No
51081	MRPS7	mitochondrial ribosomal protein S7	2.07E-08	No	No	No	No	Yes	No	No
2194	FASN	fatty acid synthase	2.07E-08	No	No	No	No	No	No	No
7518	XRCC4	X-ray repair complementing defective repair in Chinese hamster cells 4	2.08E-08	No	No	Yes	No	No	No	No
5567	PRKACB	protein kinase, cAMP-dependent, catalytic, beta	2.09E-08	Yes	No	No	Yes	No	No	No
259307	IL4I1	interleukin 4 induced 1	2.09E-08	No	No	No	Yes	No	No	No
63895	FAM38B	family with sequence similarity 38, member B	2.13E-08	No	No	Yes	No	No	No	No
4739	NEDD9	neural precursor cell expressed, developmentally down-regulated 9	2.13E-08	Yes	No	Yes	No	No	No	No
84932	RAB2B	RAB2B, member RAS oncogene family	2.14E-08	Yes	No	No	Yes	No	No	No
9976	CLEC2B	C-type lectin domain family 2, member B	2.14E-08	Yes	No	Yes	No	No	No	No
154791	C7orf55	chromosome 7 open reading frame 55	2.15E-08	No	No	No	No	Yes	Yes	No
26261	FBXO24	F-box protein 24	2.17E-08	No	No	Yes	No	No	No	No
80155	NARG1	NMDA receptor regulated 1	2.17E-08	Yes	Yes	Yes	No	No	Yes	No
4717	NDUFC1	NADH dehydrogenase (ubiquinone) 1, subcomplex unknown, 1, 6kDa	2.17E-08	No	No	Yes	No	No	No	No
2071	ERCC3	excision repair cross-complementing rodent repair deficiency, complementation group 3 (xeroderma pigmentosum group B complementing)	2.17E-08	No	No	Yes	No	No	No	No
10717	AP4B1	adaptor-related protein complex 4, beta 1 subunit	2.17E-08	Yes	No	No	Yes	No	No	No
6458	DCLRE1B	DNA cross-link repair 1B (PSO2 homolog, S. cerevisiae)	2.17E-08	No	No	Yes	No	No	No	No
51305	KCNK9	potassium channel, subfamily K, member 9	2.18E-08	No	Yes	Yes	No	No	No	No
374966	FAM73A	family with sequence similarity 73, member A	2.20E-08	Yes	No	No	No	No	No	No
83460	TMEM93	transmembrane protein 93	2.22E-08	No	No	Yes	No	No	No	No
6059	ABCE1	ATP-binding cassette, sub-family E (OABP), member 1	2.22E-08	No	No	Yes	No	No	Yes	No
1871	E2F3	E2F transcription factor 3	2.30E-08	No	No	Yes	No	No	No	No
7538	ZFP36	zinc finger protein 36, C3H type, homolog (mouse)	2.30E-08	Yes	No	No	Yes	No	Yes	Yes
1521	CTSW	cathepsin W	2.31E-08	Yes	No	Yes	No	No	No	No
27289	RND1	Rho family GTPase 1	2.31E-08	No	No	No	No	No	No	No
23143	LRCH1	leucine-rich repeats and calponin homology (CH) domain containing 1	2.32E-08	No	No	Yes	No	No	No	No
204851	HIPK1	homeodomain interacting protein kinase 1	2.37E-08	No	No	No	Yes	No	Yes	No
7776	ZNF236	zinc finger protein 236	2.37E-08	No	No	Yes	No	No	Yes	No
28981	IFT81	intraflagellar transport 81 homolog (Chlamydomonas)	2.37E-08	No	No	Yes	No	No	No	No
51134	CCDC41	coiled-coil domain containing 41	2.37E-08	Yes	No	Yes	No	No	No	No
441608	OR5B3	olfactory receptor, family 5, subfamily B, member 3	2.38E-08	NA	No	No	Yes	No	No	No
338811	FAM19A2	family with sequence similarity 19 (chemokine (C-C motif)-like), member A2	2.43E-08	No	No	No	No	No	No	No
3609	ILF3	interleukin enhancer binding factor 3, 90kDa	2.43E-08	No	No	Yes	No	No	Yes	No

154881	KCTD7	potassium channel tetramerisation domain containing 7	2.45E-08	No	No	Yes	No	No	No	No
286530	P2RY8	purinergic receptor P2Y, G-protein coupled, 8	2.46E-08	No	No	Yes	No	No	Yes	No
285704	RGMB	RGM domain family, member B	2.48E-08	Yes	No	Yes	No	No	No	No
2073	ERCC5	excision repair cross-complementing rodent repair deficiency, complementation group 5 (xeroderma pigmentosum, complementation group G (Cockayne syndrome))	2.49E-08	Yes	No	No	No	Yes	Yes	Yes
2517	FUCA1	fucosidase, alpha-L-1, tissue	2.49E-08	No	No	Yes	No	No	No	No
163049	ZNF791	zinc finger protein 791	2.51E-08	Yes	No	Yes	No	No	No	No
57194	ATP10A	ATPase, class V, type 10A	2.53E-08	Yes	No	No	No	No	No	No
6632	SNRPD1	small nuclear ribonucleoprotein D1 polypeptide 16kDa	2.56E-08	No	No	Yes	No	No	No	No
4255	MGMT	O-6-methylguanine-DNA methyltransferase	2.56E-08	No	No	Yes	No	No	No	No
92856	IMP4	IMP4, U3 small nucleolar ribonucleoprotein, homolog (yeast)	2.61E-08	No	No	Yes	No	No	Yes	No
84317	CDC115	coiled-coil domain containing 115	2.61E-08	No	No	Yes	No	No	No	No
170392	OIT3	oncprotein induced transcript 3	2.62E-08	No	No	Yes	No	No	No	No
4121	MAN1A1	mannosidase, alpha, class 1A, member 1	2.62E-08	No	No	Yes	No	No	No	No
5695	PSMB7	proteasome (prosome, macropain) subunit, beta type, 7	2.63E-08	No	No	No	Yes	No	No	No
10788	IQGAP2	IQ motif containing GTPase activating protein 2	2.64E-08	Yes	No	Yes	No	No	Yes	Yes
55350	VNN3	vanin 3	2.66E-08	No	No	No	Yes	No	No	No
353322	ANKRD37	ankyrin repeat domain 37	2.66E-08	No	No	Yes	No	No	No	No
56160	NDNL2	necdin-like 2	2.67E-08	No	No	Yes	No	No	Yes	No
57223	SMEK2	SMEK homolog 2, suppressor of mek1 (Dictyostelium)	2.67E-08	No	No	Yes	No	No	Yes	No
124044	SPATA2L	spermatogenesis associated 2-like	2.67E-08	No	No	No	No	No	No	No
55216	C11orf57	chromosome 11 open reading frame 57	2.69E-08	No	No	Yes	No	No	Yes	No
9897	KIAA0196	KIAA0196	2.69E-08	No	No	Yes	No	No	No	No
1965	EIF2S1	eukaryotic translation initiation factor 2, subunit 1 alpha, 35kDa	2.70E-08	No	No	Yes	No	No	No	No
5818	PVRL1	poliovirus receptor-related 1 (herpesvirus entry mediator C)	2.71E-08	Yes	No	No	No	No	No	No
81831	NETO2	neuropilin (NRP) and tolloid (TLL)-like 2	2.71E-08	No	No	Yes	No	No	No	No
415116	PIM3	pim-3 oncogene	2.71E-08	No	No	No	No	No	No	No
148789	B3GALNT2	beta-1,3-N-acetylgalactosaminyltransferase 2	2.73E-08	NA	No	Yes	No	No	No	No
23351	KIAA0323	KIAA0323	2.73E-08	No	No	No	Yes	No	No	No
84301	DDI2	DDI1, DNA-damage inducible 1, homolog 2 (S. cerevisiae)	2.74E-08	No	No	Yes	No	No	No	No
4801	NFYB	nuclear transcription factor Y, beta	2.74E-08	No	No	Yes	No	No	No	No
27243	CHMP2A	chromatin modifying protein 2A	2.76E-08	No	No	Yes	No	No	No	No
1497	CTNS	cystinosis, nephropathic	2.78E-08	Yes	No	No	No	No	No	No
55789	DEPDC1B	DEP domain containing 1B	2.79E-08	No	No	Yes	No	No	No	No
9860	LRIG2	leucine-rich repeats and immunoglobulin-like domains 2	2.80E-08	Yes	No	Yes	No	No	No	No

196513	DCP1B	DCP1 decapping enzyme homolog B (<i>S. cerevisiae</i>)	2.81E-08	No	No	No	Yes	No	No	No
22985	ACIN1	apoptotic chromatin condensation inducer 1	2.84E-08	Yes	No	No	Yes	No	Yes	Yes
1316	KLF6	Kruppel-like factor 6	2.85E-08	Yes	No	Yes	No	No	Yes	No
10239	AP3S2	adaptor-related protein complex 3, sigma 2 subunit	2.92E-08	No	No	Yes	No	No	No	No
1975	EIF4B	eukaryotic translation initiation factor 4B	2.94E-08	No	No	Yes	No	No	No	No
8398	PLA2G6	phospholipase A2, group VI (cytosolic, calcium-independent)	2.95E-08	No	No	Yes	No	No	No	No
54602	NDFIP2	Nedd4 family interacting protein 2	2.96E-08	No	No	No	Yes	No	No	No
10056	FARSB	phenylalanyl-tRNA synthetase, beta subunit	3.00E-08	Yes	No	Yes	No	No	No	No
10160	FARP1	FERM, RhoGEF (ARHGEF) and pleckstrin domain protein 1 (chondrocyte-derived)	3.01E-08	No	Yes	Yes	No	No	No	No
9938	ARHGAP25	Rho GTPase activating protein 25	3.04E-08	Yes	No	No	Yes	No	No	No
23523	CABIN1	calcineurin binding protein 1	3.05E-08	Yes	No	Yes	No	No	Yes	Yes
56929	FEM1C	fem-1 homolog c (<i>C. elegans</i>)	3.06E-08	No	No	Yes	No	No	No	No
9360	PPIG	peptidylprolyl isomerase G (cyclophilin G)	3.06E-08	Yes	No	Yes	No	No	Yes	Yes
8802	SUCLG1	succinate-CoA ligase, alpha subunit	3.06E-08	No	No	Yes	No	No	Yes	No
84216	TMEM117	transmembrane protein 117	3.06E-08	No	No	Yes	No	No	No	No
3310	HSPA6	heat shock 70kDa protein 6 (HSP70B)	3.11E-08	Yes	Yes	Yes	No	No	No	No
3448	IFNA14	interferon, alpha 14	3.13E-08	NA	No	Yes	No	No	No	No
136259	KLF14	Kruppel-like factor 14	3.14E-08	No	No	Yes	No	No	No	No
6599	SMARCC1	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily c, member 1	3.14E-08	No	No	Yes	No	No	No	No
6660	SOX5	SRY (sex determining region Y)-box 5	3.15E-08	No	No	No	Yes	No	Yes	No
8682	PEA15	phosphoprotein enriched in astrocytes 15	3.17E-08	Yes	No	Yes	No	No	No	No
8331	HIST1H2AJ	histone cluster 1, H2aj	3.17E-08	NA	No	Yes	No	No	No	No
54908	CCDC99	coiled-coil domain containing 99	3.20E-08	No	No	No	Yes	No	Yes	No
149647	FAM71A	family with sequence similarity 71, member A	3.21E-08	No	No	No	Yes	No	No	No
1836	SLC26A2	solute carrier family 26 (sulfate transporter), member 2	3.21E-08	Yes	No	No	Yes	No	Yes	No
10987	COP55	COP9 constitutive photomorphogenic homolog subunit 5 (<i>Arabidopsis</i>)	3.23E-08	No	No	Yes	No	No	Yes	No
22807	IKZF2	IKAROS family zinc finger 2 (Helios)	3.25E-08	Yes	No	Yes	No	No	No	No
9589	WTAP	Wilms tumor 1 associated protein	3.25E-08	Yes	No	Yes	No	No	Yes	No
27074	LAMP3	lysosomal-associated membrane protein 3	3.26E-08	No	No	Yes	No	No	No	No
6610	STX4	syntaxin 4	3.28E-08	Yes	No	No	Yes	No	No	No
2248	FGF3	fibroblast growth factor 3 (murine mammary tumor virus integration site (v-int-2) oncogene homolog)	3.32E-08	No	No	No	Yes	No	No	No
9726	ZNF646	zinc finger protein 646	3.32E-08	No	No	No	Yes	No	No	No
375346	TMEM110	transmembrane protein 110	3.33E-08	Yes	No	Yes	No	No	No	No
340481	ZDHHC21	zinc finger, DHHC-type containing 21	3.35E-08	Yes	No	No	Yes	No	No	No

11214	AKAP13	A kinase (PRKA) anchor protein 13	3.40E-08	Yes	No	No	Yes	No	No	No
81537	SGPP1	sphingosine-1-phosphate phosphatase 1	3.42E-08	No	No	Yes	No	No	No	No
4688	NCF2	neutrophil cytosolic factor 2 (65kDa, chronic granulomatous disease, autosomal 2)	3.43E-08	Yes	Yes	No	Yes	No	No	No
11177	BAZ1A	bromodomain adjacent to zinc finger domain, 1A	3.45E-08	No	No	No	Yes	No	No	No
80774	LIMD2	LIM domain containing 2	3.45E-08	No	No	No	Yes	No	No	No
26025	PCDHGA12	protocadherin gamma subfamily A, 12	3.46E-08	NA*	Yes	Yes	No	No	No	No
4720	NDUFS2	NADH dehydrogenase (ubiquinone) Fe-S protein 2, 49kDa (NADH-coenzyme Q reductase)	3.48E-08	No	No	Yes	No	No	No	No
150165	XKR3	XK, Kell blood group complex subunit-related family, member 3	3.48E-08	NA	No	Yes	No	No	No	No
91452	ACBD5	acyl-Coenzyme A binding domain containing 5	3.51E-08	No	No	No	Yes	No	No	No
11267	SNF8	SNF8, ESCRT-II complex subunit, homolog (S. cerevisiae)	3.53E-08	No	No	No	No	Yes	No	No
40	ACCN1	amiloride-sensitive cation channel 1, neuronal (degenerin)	3.54E-08	No	No	No	Yes	No	No	No
23367	LARP1	La ribonucleoprotein domain family, member 1	3.56E-08	No	No	Yes	No	No	No	No
80319	CXXC4	CXXC finger 4	3.57E-08	Yes	No	Yes	No	No	No	No
55775	TDP1	tyrosyl-DNA phosphodiesterase 1	3.60E-08	No	No	Yes	No	No	No	No
11172	INSL6	insulin-like 6	3.63E-08	No	No	Yes	No	No	No	No
8795	TNFRSF10B	tumor necrosis factor receptor superfamily, member 10b	3.69E-08	Yes	No	Yes	No	No	No	No
83759	RBM4B	RNA binding motif protein 4B	3.69E-08	Yes	No	Yes	No	No	Yes	No
65056	GPBP1	GC-rich promoter binding protein 1	3.72E-08	No	No	No	No	Yes	Yes	No
54014	BRWD1	bromodomain and WD repeat domain containing 1	3.75E-08	No	Yes	Yes	No	No	Yes	No
7728	ZNF175	zinc finger protein 175	3.77E-08	Yes	No	Yes	No	No	No	No
10111	RAD50	RAD50 homolog (S. cerevisiae)	3.78E-08	Yes	No	Yes	No	No	No	No
29119	CTNNA3	catenin (cadherin-associated protein), alpha 3	3.83E-08	No	No	Yes	No	No	No	No
55140	ELP3	elongation protein 3 homolog (S. cerevisiae)	3.83E-08	No	No	Yes	No	No	Yes	No
4077	NBR1	neighbor of BRCA1 gene 1	3.83E-08	No	No	No	Yes	No	No	No
4236	MFAP1	microfibrillar-associated protein 1	3.91E-08	No	No	Yes	No	No	No	No
27069	GHITM	growth hormone inducible transmembrane protein	3.92E-08	No	No	Yes	No	No	No	No
84271	POLDIP3	polymerase (DNA-directed), delta interacting protein 3	3.92E-08	No	No	Yes	No	No	Yes	No
6004	RGS16	regulator of G-protein signaling 16	3.96E-08	No	No	No	Yes	No	No	No
91975	ZNF300	zinc finger protein 300	3.98E-08	No	No	Yes	No	No	No	No
2487	FRZB	frizzled-related protein	3.98E-08	No	No	Yes	No	No	No	No
81034	SLC25A32	solute carrier family 25, member 32	4.01E-08	No	No	Yes	No	No	Yes	No
165055	CCDC138	coiled-coil domain containing 138	4.01E-08	No	No	No	No	No	No	No
483	ATP1B3	ATPase, Na+/K+ transporting, beta 3 polypeptide	4.01E-08	No	No	No	Yes	No	Yes	No
10465	PPIH	peptidylprolyl isomerase H (cyclophilin H)	4.02E-08	No	No	No	No	Yes	No	No

5257	PHKB	phosphorylase kinase, beta	4.04E-08	Yes	No	Yes	No	No	Yes	No
9994	CASP8AP2	CASP8 associated protein 2	4.04E-08	No	No	Yes	No	No	No	No
9665	KIAA0430	KIAA0430	4.04E-08	No	Yes	Yes	No	No	Yes	No
143425	SYT9	synaptotagmin IX	4.04E-08	Yes	No	No	Yes	No	No	No
64092	SAMSN1	SAM domain, SH3 domain and nuclear localization signals 1	4.05E-08	Yes	Yes	Yes	No	No	No	No
51206	GP6	glycoprotein VI (platelet)	4.10E-08	No	No	Yes	No	No	No	No
81030	ZBP1	Z-DNA binding protein 1	4.14E-08	Yes	No	Yes	No	No	No	No
200172	SLFNL1	schlafen-like 1	4.17E-08	No	No	No	Yes	No	No	No
163	AP2B1	adaptor-related protein complex 2, beta 1 subunit	4.19E-08	Yes	No	Yes	No	No	Yes	No
5193	PEX12	peroxisomal biogenesis factor 12	4.19E-08	No	No	Yes	No	No	No	No
23264	ZC3H7B	zinc finger CCCH-type containing 7B	4.21E-08	No	No	No	Yes	No	Yes	No
3112	HLA-DOB	major histocompatibility complex, class II, DO beta	4.22E-08	No	No	Yes	No	No	No	No
8898	MTMR2	myotubularin related protein 2	4.27E-08	No	No	Yes	No	No	No	No
3280	HES1	hairly and enhancer of split 1, (Drosophila)	4.27E-08	Yes	No	Yes	No	No	No	No
168451	THAP5	THAP domain containing 5	4.33E-08	Yes	Yes	Yes	No	No	No	No
6208	RPS14	ribosomal protein S14	4.37E-08	Yes	No	No	Yes	No	No	No
11021	RAB35	RAB35, member RAS oncogene family	4.43E-08	No	No	Yes	No	No	No	No
23421	ITGB3BP	integrin beta 3 binding protein (beta3-endonexin)	4.50E-08	No	No	No	Yes	No	Yes	No
55784	MCTP2	multiple C2 domains, transmembrane 2	4.62E-08	No	Yes	Yes	No	No	No	No
56267	CCBL2	cysteine conjugate-beta lyase 2	4.65E-08	No	No	Yes	No	No	Yes	No
197131	UBR1	ubiquitin protein ligase E3 component n-recogin 1	4.66E-08	No	No	No	Yes	No	No	No
152519	NPAL1	NIPA-like domain containing 1	4.70E-08	NA	No	Yes	No	No	No	No
25853	WDR40A	WD repeat domain 40A	4.71E-08	No	No	Yes	No	No	No	No
81793	TLR10	toll-like receptor 10	4.72E-08	No	No	Yes	No	No	No	No
122553	TRAPPC6B	trafficking protein particle complex 6B	4.73E-08	No	No	Yes	No	No	No	No
10813	UTP14A	UTP14, U3 small nucleolar ribonucleoprotein, homolog A (yeast)	4.73E-08	No	No	No	Yes	No	No	No
3621	ING1	inhibitor of growth family, member 1	4.73E-08	No	No	No	No	Yes	Yes	No
8871	SYNJ2	synaptojanin 2	4.74E-08	Yes	No	Yes	No	No	No	No
1456	CSNK1G3	casein kinase 1, gamma 3	4.80E-08	Yes	Yes	Yes	No	No	No	No
8570	KHSRP	KH-type splicing regulatory protein	4.83E-08	No	Yes	No	Yes	No	No	No
29089	UBE2T	ubiquitin-conjugating enzyme E2T (putative)	4.83E-08	No	No	Yes	No	No	No	No
10794	ZNF460	zinc finger protein 460	4.87E-08	No	No	Yes	No	No	No	No
8819	SAP30	Sin3A-associated protein, 30kDa	4.88E-08	No	No	Yes	No	No	Yes	No
51144	HSD17B12	hydroxysteroid (17-beta) dehydrogenase 12	4.88E-08	No	Yes	Yes	No	No	No	No

5912	RAP2B	RAP2B, member of RAS oncogene family	4.88E-08	No	No	Yes	No	No	No	No
90390	MED30	mediator complex subunit 30	4.89E-08	No	No	Yes	No	No	No	No
29761	USP25	ubiquitin specific peptidase 25	4.89E-08	Yes	No	Yes	No	No	Yes	No
89970	RSPRY1	ring finger and SPRY domain containing 1	4.91E-08	No	No	No	Yes	No	No	No
10327	AKR1A1	aldo-keto reductase family 1, member A1 (aldehyde reductase)	4.93E-08	No	No	No	Yes	No	No	No
4736	RPL10A	ribosomal protein L10a	4.96E-08	No	No	No	No	No	No	No
257062	TMEM146	transmembrane protein 146	4.99E-08	No	No	No	No	No	Yes	No
9361	LONP1	lon peptidase 1, mitochondrial	4.99E-08	No	No	No	Yes	No	Yes	No
152559	PAQR3	progesterin and adipoQ receptor family member III	5.02E-08	No	No	No	No	Yes	No	No
639	PRDM1	PR domain containing 1, with ZNF domain	5.05E-08	Yes	No	Yes	No	No	No	No
11232	POLG2	polymerase (DNA directed), gamma 2, accessory subunit	5.05E-08	No	No	Yes	No	No	Yes	No
10043	TOM1	target of myb1 (chicken)	5.05E-08	No	No	Yes	No	No	No	No
29121	CLEC2D	C-type lectin domain family 2, member D	5.08E-08	No	No	Yes	No	No	No	No
8227	SFRS17A	splicing factor, arginine/serine-rich 17A	5.09E-08	No	No	Yes	No	No	No	No
55500	ETNK1	ethanolamine kinase 1	5.11E-08	No	No	No	No	Yes	No	No
9363	RAB33A	RAB33A, member RAS oncogene family	5.12E-08	No	No	Yes	No	No	No	No
9131	AIFM1	apoptosis-inducing factor, mitochondrion-associated, 1	5.12E-08	No	No	Yes	No	No	No	No
196	AHR	aryl hydrocarbon receptor	5.14E-08	No	No	Yes	No	No	No	No
353219	KAAG1	kidney associated antigen 1	5.18E-08	No	No	Yes	No	No	No	No
51562	MBIP	MAP3K12 binding inhibitory protein 1	5.20E-08	No	No	Yes	No	No	No	No
3052	HCCS	holocytochrome c synthase (cytochrome c heme-lyase)	5.20E-08	No	Yes	No	Yes	No	No	No
25915	C3orf60	chromosome 3 open reading frame 60	5.23E-08	No	No	No	Yes	No	No	No
8543	LMO4	LIM domain only 4	5.23E-08	No	No	Yes	No	No	No	No
3748	KCNC3	potassium voltage-gated channel, Shaw-related subfamily, member 3	5.28E-08	No	No	No	Yes	No	No	No
2957	GTF2A1	general transcription factor IIA, 1, 19/37kDa	5.29E-08	No	No	Yes	No	No	No	No
9120	SLC16A6	solute carrier family 16, member 6 (monocarboxylic acid transporter 7)	5.32E-08	No	No	Yes	No	No	No	No
134218	DNAJC21	DnaJ (Hsp40) homolog, subfamily C, member 21	5.33E-08	Yes	No	Yes	No	No	No	No
29760	BLNK	B-cell linker	5.33E-08	No	No	Yes	No	No	No	No
55215	FANCI	Fanconi anemia, complementation group I	5.33E-08	No	No	No	Yes	No	No	No
160335	TMTC2	transmembrane and tetratricopeptide repeat containing 2	5.36E-08	No	No	No	Yes	No	No	No
8368	HIST1H4L	histone cluster 1, H4l	5.36E-08	No	Yes	Yes	No	No	Yes	No
8968	HIST1H3F	histone cluster 1, H3f	5.37E-08	No	No	Yes	No	No	No	No
8345	HIST1H2BH	histone cluster 1, H2bh	5.37E-08	NA	No	Yes	No	No	No	No
256646	C15orf55	chromosome 15 open reading frame 55	5.45E-08	No	No	Yes	No	No	No	No

6093	ROCK1	Rho-associated, coiled-coil containing protein kinase 1	5.45E-08	Yes	No	Yes	No	No	No	No
22890	ZBTB1	zinc finger and BTB domain containing 1	5.49E-08	No	No	No	Yes	No	No	No
6498	SKIL	SKI-like oncogene	5.49E-08	Yes	Yes	Yes	No	No	No	No
26207	PITPNC1	phosphatidylinositol transfer protein, cytoplasmic 1	5.51E-08	No	Yes	Yes	No	No	Yes	No
64786	TBC1D15	TBC1 domain family, member 15	5.51E-08	Yes	No	Yes	No	No	Yes	No
55332	DRAM	damage-regulated autophagy modulator	5.56E-08	Yes	No	Yes	No	No	No	No
8353	HIST1H3E	histone cluster 1, H3e	5.61E-08	No	No	Yes	No	No	No	No
90338	ZNF160	zinc finger protein 160	5.63E-08	Yes	No	Yes	No	No	No	No
51249	TMEM69	transmembrane protein 69	5.64E-08	No	No	Yes	No	No	Yes	No
79951	---	---	5.64E-08	No	No	No	Yes	No	No	No
64232	MS4A5	membrane-spanning 4-domains, subfamily A, member 5	5.67E-08	No	No	No	Yes	No	No	No
6511	SLC1A6	solute carrier family 1 (high affinity aspartate/glutamate transporter), member 6	5.70E-08	No	No	No	No	Yes	No	No
3329	HSPD1	heat shock 60kDa protein 1 (chaperonin)	5.77E-08	No	No	No	No	Yes	No	No
84824	FCRLA	Fc receptor-like A	5.95E-08	No	No	Yes	No	No	No	No
1368	CPM	carboxypeptidase M	5.95E-08	No	Yes	No	Yes	No	No	No
4665	NAB2	NGFI-A binding protein 2 (EGR1 binding protein 2)	5.95E-08	Yes	No	No	Yes	No	Yes	No
23306	TMEM194A	transmembrane protein 194A	5.95E-08	No	No	No	Yes	No	No	No
387893	SETD8	SET domain containing (lysine methyltransferase) 8	5.98E-08	No	No	Yes	No	No	No	No
91607	SLFN11	schlafen family member 11	6.01E-08	Yes	No	Yes	No	No	No	No
84919	PPP1R15B	protein phosphatase 1, regulatory (inhibitor) subunit 15B	6.01E-08	No	No	Yes	No	No	No	No
23185	LARP5	La ribonucleoprotein domain family, member 5	6.08E-08	No	No	Yes	No	No	No	No
23480	SEC61G	Sec61 gamma subunit	6.11E-08	No	No	Yes	No	No	Yes	No
23075	SWAP70	SWAP-70 protein	6.14E-08	No	Yes	Yes	No	No	Yes	No
55529	TMEM55A	transmembrane protein 55A	6.14E-08	Yes	No	No	Yes	No	No	No
10252	SPRY1	sprouty homolog 1, antagonist of FGF signaling (Drosophila)	6.16E-08	Yes	No	Yes	No	No	No	No
199786	FAM129C	family with sequence similarity 129, member C	6.16E-08	Yes	No	No	Yes	No	No	No
55632	KIAA1333	KIAA1333	6.22E-08	No	No	Yes	No	No	Yes	No
65977	PLEKHA3	pleckstrin homology domain containing, family A (phosphoinositide binding specific) member 3	6.28E-08	No	No	No	Yes	No	No	No
84981	C17orf91	chromosome 17 open reading frame 91	6.31E-08	No	No	No	Yes	No	Yes	No
23613	ZMYND8	zinc finger, MYND-type containing 8	6.34E-08	No	No	Yes	No	No	No	No
10959	TMED2	transmembrane emp24 domain trafficking protein 2	6.34E-08	No	No	Yes	No	No	No	No
81671	TMEM49	transmembrane protein 49	6.38E-08	Yes	No	Yes	No	No	Yes	No
132864	CPEB2	cytoplasmic polyadenylation element binding protein 2	6.41E-08	Yes	No	Yes	No	No	No	No
157313	CDCA2	cell division cycle associated 2	6.42E-08	No	No	Yes	No	No	No	No

54793	KCTD9	potassium channel tetramerisation domain containing 9	6.42E-08	No	No	Yes	No	No	No	No
4649	MYO9A	myosin IXA	6.45E-08	No	Yes	Yes	No	No	No	No
123228	SENP8	SUMO/sentrin specific peptidase family member 8	6.45E-08	No	No	Yes	No	No	No	No
51054	PLEKHA9	pleckstrin homology domain containing, family A (phosphoinositide binding specific) member 9	6.46E-08	No	No	Yes	No	No	No	No
6557	SLC12A1	solute carrier family 12 (sodium/potassium/chloride transporters), member 1	6.52E-08	Yes	No	Yes	No	No	No	No
26160	IFT172	intraflagellar transport 172 homolog (Chlamydomonas)	6.56E-08	No	No	No	Yes	No	Yes	No
2782	GNB1	guanine nucleotide binding protein (G protein), beta polypeptide 1	6.56E-08	No	No	Yes	No	No	No	No
2130	EWSR1	Ewing sarcoma breakpoint region 1	6.56E-08	No	No	No	Yes	No	Yes	No
3895	KTN1	kinesin 1 (kinesin receptor)	6.71E-08	No	No	Yes	No	No	No	No
127396	ZNF684	zinc finger protein 684	6.79E-08	No	No	Yes	No	No	No	No
4820	NKTR	natural killer-tumor recognition sequence	6.80E-08	No	No	Yes	No	No	No	No
2120	ETV6	ets variant gene 6 (TEL oncogene)	6.82E-08	Yes	Yes	Yes	No	No	No	No
5864	RAB3A	RAB3A, member RAS oncogene family	6.82E-08	No	No	No	Yes	No	No	No
5244	ABCB4	ATP-binding cassette, sub-family B (MDR/TAP), member 4	6.83E-08	Yes	No	Yes	No	No	No	No
7803	PTP4A1	protein tyrosine phosphatase type IVA, member 1	6.85E-08	Yes	Yes	Yes	No	No	Yes	No
56997	CABC1	chaperone, ABC1 activity of bc1 complex homolog (S. pombe)	6.95E-08	Yes	No	No	Yes	No	No	No
5509	PPP1R3D	protein phosphatase 1, regulatory (inhibitor) subunit 3D	7.01E-08	Yes	No	No	No	No	No	No
196441	CCDC131	coiled-coil domain containing 131	7.03E-08	No	No	Yes	No	No	Yes	No
84286	TMEM175	transmembrane protein 175	7.06E-08	Yes	No	No	Yes	No	Yes	No
54443	ANLN	anillin, actin binding protein	7.11E-08	No	No	Yes	No	No	No	No
147694	ZNF548	zinc finger protein 548	7.25E-08	Yes	No	Yes	No	No	No	No
58517	RBM25	RNA binding motif protein 25	7.28E-08	No	No	Yes	No	No	Yes	No
8359	HIST1H4A	histone cluster 1, H4a	7.28E-08	No	Yes	Yes	No	No	No	No
81606	LBH	limb bud and heart development homolog (mouse)	7.34E-08	Yes	No	Yes	No	No	No	No
10130	PDIA6	protein disulfide isomerase family A, member 6	7.36E-08	No	No	No	Yes	No	No	No
23116	KIAA0423	KIAA0423	7.41E-08	No	No	Yes	No	No	No	No
23648	SSBP3	single stranded DNA binding protein 3	7.42E-08	No	Yes	Yes	No	No	No	No
64081	PBLD	phenazine biosynthesis-like protein domain containing	7.48E-08	No	No	Yes	No	No	No	No
54765	TRIM44	tripartite motif-containing 44	7.48E-08	Yes	No	No	Yes	No	No	No
4704	NDUFA9	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 9, 39kDa	7.48E-08	No	No	Yes	No	No	No	No
7706	TRIM25	tripartite motif-containing 25	7.54E-08	No	No	Yes	No	No	No	No
54682	MANSC1	MANSC domain containing 1	7.58E-08	Yes	No	No	Yes	No	No	No
23318	ZCCHC11	zinc finger, CCHC domain containing 11	7.58E-08	Yes	No	Yes	No	No	No	No
55103	RALGPS2	Ral GEF with PH domain and SH3 binding motif 2	7.63E-08	Yes	No	Yes	No	No	No	No

10628	TXNIP	thioredoxin interacting protein	7.65E-08	Yes	No	Yes	No	No	Yes	Yes
11030	RBPMS	RNA binding protein with multiple splicing	7.66E-08	No	No	Yes	No	No	No	No
81876	RAB1B	RAB1B, member RAS oncogene family	7.70E-08	No	No	Yes	No	No	Yes	No
163702	IL28RA	interleukin 28 receptor, alpha (interferon, lambda receptor)	7.71E-08	No	No	Yes	No	No	No	No
7940	LST1	leukocyte specific transcript 1	7.73E-08	No	No	No	No	Yes	Yes	No
4050	LTB	lymphotoxin beta (TNF superfamily, member 3)	7.73E-08	No	No	No	No	Yes	No	No
6528	SLC5A5	solute carrier family 5 (sodium iodide symporter), member 5	7.74E-08	No	No	No	No	No	No	No
4155	MBP	myelin basic protein	7.75E-08	Yes	No	Yes	No	No	No	No
60468	BACH2	BTB and CNC homology 1, basic leucine zipper transcription factor 2	7.87E-08	No	No	Yes	No	No	No	No
1739	DLG1	discs, large homolog 1 (Drosophila)	7.88E-08	No	No	Yes	No	No	No	No
963	CD53	CD53 molecule	7.96E-08	No	No	No	Yes	No	Yes	No
23165	NUP205	nucleoporin 205kDa	7.99E-08	No	No	Yes	No	No	Yes	No
8658	TNKS	tankyrase, TRF1-interacting ankyrin-related ADP-ribose polymerase	8.02E-08	No	No	No	No	No	No	No
196913	LOC196913	hypothetical protein LOC196913	8.03E-08	No	No	No	Yes	No	No	No
55284	UBE2W	ubiquitin-conjugating enzyme E2W (putative)	8.07E-08	Yes	Yes	Yes	No	No	No	No
27430	MAT2B	methionine adenosyltransferase II, beta	8.07E-08	Yes	Yes	No	No	Yes	No	No
613206	LOC613206	myeloproliferative disease associated tumor antigen 5	8.12E-08	NA	No	Yes	No	No	No	No
84318	CCDC77	coiled-coil domain containing 77	8.15E-08	No	No	Yes	No	No	Yes	No
5715	PSMD9	proteasome (prosome, macropain) 26S subunit, non-ATPase, 9	8.17E-08	No	No	Yes	No	No	No	No
23468	CBX5	chromobox homolog 5 (HP1 alpha homolog, Drosophila)	8.17E-08	No	No	Yes	No	No	No	No
57711	ZNF529	zinc finger protein 529	8.20E-08	Yes	No	Yes	No	No	No	No
9202	ZMYM4	zinc finger, MYM-type 4	8.24E-08	No	No	No	Yes	No	No	No
84076	TKTL2	transketolase-like 2	8.25E-08	No	No	Yes	No	No	No	No
3313	HSPA9	heat shock 70kDa protein 9 (mortalin)	8.33E-08	No	No	Yes	No	No	No	No
10146	G3BP1	GTPase activating protein (SH3 domain) binding protein 1	8.35E-08	No	No	Yes	No	No	No	No
284996	RNF149	ring finger protein 149	8.42E-08	Yes	No	Yes	No	No	No	No
11034	DSTN	destrin (actin depolymerizing factor)	8.43E-08	No	No	Yes	No	No	No	No
150274	HSCB	HscB iron-sulfur cluster co-chaperone homolog (E. coli)	8.45E-08	No	No	No	Yes	No	Yes	No
26227	PHGDH	phosphoglycerate dehydrogenase	8.54E-08	No	No	Yes	No	No	No	No
124817	CNTD1	cyclin N-terminal domain containing 1	8.58E-08	No	No	Yes	No	No	No	No
3018	HIST1H2BB	histone cluster 1, H2bb	8.65E-08	No	No	Yes	No	No	No	No
8352	HIST1H3C	histone cluster 1, H3c	8.65E-08	NA	No	Yes	No	No	No	No
51719	CAB39	calcium binding protein 39	8.66E-08	No	No	Yes	No	No	Yes	No
80021	TMEM62	transmembrane protein 62	8.70E-08	No	No	Yes	No	No	No	No

147948	ZNF582	zinc finger protein 582	8.75E-08	No	No	No	Yes	No	No	No
80004	RBM35B	RNA binding motif protein 35B	8.75E-08	Yes	No	No	Yes	No	No	No
51111	SUV420H1	suppressor of variegation 4-20 homolog 1 (Drosophila)	8.76E-08	Yes	No	Yes	No	No	No	No
10694	CCT8	chaperonin containing TCP1, subunit 8 (theta)	8.81E-08	No	No	Yes	No	No	No	No
54663	WDR74	WD repeat domain 74	8.81E-08	No	No	Yes	No	No	No	No
57147	SCYL3	SCY1-like 3 (S. cerevisiae)	8.85E-08	Yes	No	Yes	No	No	Yes	No
144455	E2F7	E2F transcription factor 7	8.90E-08	No	No	No	Yes	No	No	No
26778	SNORA70	small nucleolar RNA, H/ACA box 70	8.92E-08	NA	No	Yes	No	No	No	No
285331	CCDC66	coiled-coil domain containing 66	8.92E-08	No	No	Yes	No	No	No	No
5810	RAD1	RAD1 homolog (S. pombe)	9.00E-08	No	No	No	Yes	No	No	No
6671	SP4	Sp4 transcription factor	9.04E-08	Yes	Yes	Yes	No	No	No	No
57192	MCOLN1	mucopolin 1	9.05E-08	No	No	No	No	No	No	No
7809	BSND	Barter syndrome, infantile, with sensorineural deafness (Barttin)	9.05E-08	No	No	No	No	No	No	No
96459	FNIP1	folliculin interacting protein 1	9.08E-08	Yes	No	No	Yes	No	No	No
54913	RPP25	ribonuclease P/MRP 25kDa subunit	9.14E-08	No	No	No	Yes	No	No	No
5046	PCSK6	proprotein convertase subtilisin/kexin type 6	9.16E-08	Yes	No	No	Yes	No	No	No
112744	IL17F	interleukin 17F	9.17E-08	No	No	Yes	No	No	No	No
56000	NXF3	nuclear RNA export factor 3	9.44E-08	No	No	No	Yes	No	No	No
132671	SPATA18	spermatogenesis associated 18 homolog (rat)	9.47E-08	No	No	Yes	No	No	No	No
57167	SALL4	sall-like 4 (Drosophila)	9.56E-08	No	No	Yes	No	No	No	No
6428	SFRS3	splicing factor, arginine/serine-rich 3	9.59E-08	No	No	No	Yes	No	No	No
440867	FLJ16124	FLJ16124 protein	9.69E-08	Yes	No	Yes	No	No	No	No
200734	SPRED2	sprouty-related, EVH1 domain containing 2	9.69E-08	No	Yes	Yes	No	No	No	No
79706	PRKRIP1	PRKR interacting protein 1 (IL11 inducible)	9.73E-08	No	Yes	No	Yes	No	No	No
390992	HES3	hairy and enhancer of split 3 (Drosophila)	9.79E-08	NA	No	Yes	No	No	No	No
4064	CD180	CD180 molecule	9.83E-08	No	No	No	No	Yes	No	No
64581	CLECTA	C-type lectin domain family 7, member A	1.00E-07	Yes	No	Yes	No	No	No	No
55610	CCDC132	coiled-coil domain containing 132	1.01E-07	No	No	Yes	No	No	No	No
253012	LOC253012	hypothetical protein LOC253012	1.01E-07	No	No	Yes	No	No	No	No
6855	SYP	synaptophysin	1.01E-07	No	No	Yes	No	No	No	No
4094	MAF	v-maf musculoaponeurotic fibrosarcoma oncogene homolog (avian)	1.01E-07	No	No	Yes	No	No	No	No
11170	FAM107A	family with sequence similarity 107, member A	1.02E-07	No	No	No	Yes	No	No	No
153830	RNF145	ring finger protein 145	1.02E-07	Yes	No	Yes	No	No	No	No
80099	FLJ21075	hypothetical protein FLJ21075	1.02E-07	No	No	No	No	No	No	No

338376	IFNE1	interferon epsilon 1	1.04E-07	No	No	No	Yes	No	No	No
6850	SYK	spleen tyrosine kinase	1.05E-07	No	No	Yes	No	No	Yes	No
51701	NLK	nemo-like kinase	1.05E-07	No	Yes	No	No	Yes	No	No
340348	TSPAN33	tetraspanin 33	1.05E-07	Yes	No	No	No	Yes	No	No
5454	POU3F2	POU class 3 homeobox 2	1.05E-07	No	No	Yes	No	No	No	No
55370	PPP4R1L	protein phosphatase 4, regulatory subunit 1-like	1.06E-07	No	No	No	Yes	No	No	No
9686	VGLL4	vestigial like 4 (Drosophila)	1.06E-07	No	Yes	No	Yes	No	No	No
284747	ZNF663	zinc finger protein 663	1.07E-07	NA	No	Yes	No	No	No	No
4931	NVL	nuclear VCP-like	1.07E-07	No	No	Yes	No	No	No	No
8659	ALDH4A1	aldehyde dehydrogenase 4 family, member A1	1.08E-07	No	No	Yes	No	No	No	No
3909	LAMA3	laminin, alpha 3	1.09E-07	No	No	No	Yes	No	No	No
6144	RPL21	ribosomal protein L21	1.09E-07	No	No	Yes	No	No	No	No
4916	NTRK3	neurotrophic tyrosine kinase, receptor, type 3	1.09E-07	Yes	No	No	Yes	No	No	No
23213	SULF1	sulfatase 1	1.10E-07	No	No	Yes	No	No	No	No
23224	SYNE2	spectrin repeat containing, nuclear envelope 2	1.11E-07	No	Yes	Yes	No	No	No	No
283310	C12orf64	chromosome 12 open reading frame 64	1.11E-07	NA	No	Yes	No	No	No	No
84936	ZFYVE19	zinc finger, FYVE domain containing 19	1.11E-07	No	No	Yes	No	No	No	No
11339	OIP5	Opa interacting protein 5	1.11E-07	No	No	Yes	No	No	No	No
51096	UTP18	UTP18, small subunit (SSU) processome component, homolog (yeast)	1.11E-07	No	No	Yes	No	No	No	No
2779	GNAT1	guanine nucleotide binding protein (G protein), alpha transducing activity polypeptide 1	1.11E-07	Yes	No	No	No	No	No	No
26145	IRF2BP1	interferon regulatory factor 2 binding protein 1	1.12E-07	No	No	No	No	No	No	No
1879	EBF1	early B-cell factor 1	1.12E-07	No	No	Yes	No	No	Yes	No
3921	RPSA	ribosomal protein SA	1.13E-07	NA	No	Yes	No	No	No	No
3587	IL10RA	interleukin 10 receptor, alpha	1.13E-07	Yes	No	Yes	No	No	Yes	No
51175	TUBE1	tubulin, epsilon 1	1.14E-07	Yes	No	Yes	No	No	No	No
10928	RALBP1	ralA binding protein 1	1.14E-07	No	No	Yes	No	No	No	No
4261	CIITA	class II, major histocompatibility complex, transactivator	1.15E-07	Yes	No	No	No	Yes	Yes	Yes
7029	TFDP2	transcription factor Dp-2 (E2F dimerization partner 2)	1.16E-07	No	No	Yes	No	No	No	No
1398	CRK	v-crk sarcoma virus CT10 oncogene homolog (avian)	1.16E-07	No	No	No	Yes	No	No	No
27349	MCAT	malonyl CoA:ACP acyltransferase (mitochondrial)	1.16E-07	No	No	No	Yes	No	No	No
346525	OR2A12	olfactory receptor, family 2, subfamily A, member 12	1.17E-07	NA	No	No	Yes	No	No	No
50615	IL21R	interleukin 21 receptor	1.17E-07	No	No	Yes	No	No	No	No
8326	FZD9	frizzled homolog 9 (Drosophila)	1.17E-07	No	No	No	No	No	No	No
7584	ZNF35	zinc finger protein 35	1.18E-07	No	No	No	Yes	No	No	No

9262	STK17B	serine/threonine kinase 17b	1.18E-07	Yes	No	No	Yes	No	No	No
1814	DRD3	dopamine receptor D3	1.18E-07	No	No	No	Yes	No	No	No
4297	MLL	myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila)	1.18E-07	No	No	Yes	No	No	Yes	No
9375	TM9SF2	transmembrane 9 superfamily member 2	1.18E-07	No	No	No	Yes	No	No	No
89872	AQP10	aquaporin 10	1.19E-07	No	No	No	Yes	No	No	No
10524	HTATIP	HIV-1 Tat interacting protein, 60kDa	1.19E-07	No	No	No	Yes	No	No	No
282991	BLOC1S2	biogenesis of lysosome-related organelles complex-1, subunit 2	1.19E-07	No	No	Yes	No	No	No	No
150275	CCDC117	coiled-coil domain containing 117	1.19E-07	No	No	No	No	No	No	No
3020	H3F3A	H3 histone, family 3A	1.20E-07	No	No	Yes	No	No	No	No
389064	FLJ46347	hypothetical LOC389064	1.20E-07	NA	No	Yes	No	No	No	No
677811	SNORA28	small nucleolar RNA, H/ACA box 28	1.21E-07	NA	No	Yes	No	No	No	No
84335	AKT1S1	AKT1 substrate 1 (proline-rich)	1.21E-07	No	No	No	Yes	No	Yes	No
5756	TWF1	twinstin, actin-binding protein, homolog 1 (Drosophila)	1.23E-07	No	No	No	Yes	No	No	No
54502	RBM47	RNA binding motif protein 47	1.25E-07	Yes	Yes	No	No	No	Yes	No
5826	ABCD4	ATP-binding cassette, sub-family D (ALD), member 4	1.25E-07	No	No	Yes	No	No	No	No
3707	ITPKB	inositol 1,4,5-trisphosphate 3-kinase B	1.26E-07	No	No	Yes	No	No	No	No
79664	NARG2	NMDA receptor regulated 2	1.27E-07	No	No	Yes	No	No	Yes	No
5033	P4HA1	procollagen-proline, 2-oxoglutarate 4-dioxygenase (proline 4-hydroxylase), alpha polypeptide 1	1.28E-07	No	No	Yes	No	No	No	No
2526	FUT4	fucosyltransferase 4 (alpha (1,3) fucosyltransferase, myeloid-specific)	1.29E-07	No	No	No	Yes	No	No	No
7388	UQCRH	ubiquinol-cytochrome c reductase hinge protein	1.29E-07	No	No	Yes	No	No	No	No
10489	LRRC41	leucine rich repeat containing 41	1.29E-07	No	No	Yes	No	No	No	No
7093	TLL2	tolloid-like 2	1.29E-07	Yes	No	Yes	No	No	No	No
8662	EIF3B	eukaryotic translation initiation factor 3, subunit B	1.30E-07	No	No	No	Yes	No	No	No
6711	SPTBN1	spectrin, beta, non-erythrocytic 1	1.30E-07	No	Yes	Yes	No	No	No	No
9456	HOMER1	homer homolog 1 (Drosophila)	1.31E-07	Yes	Yes	Yes	No	No	No	No
79893	GGNBP2	gametogenetin binding protein 2	1.31E-07	No	Yes	Yes	No	No	No	No
51426	POLK	polymerase (DNA directed) kappa	1.31E-07	Yes	No	Yes	No	No	Yes	No
26812	SNORD37	small nucleolar RNA, C/D box 37	1.31E-07	NA	No	No	No	Yes	No	No
130872	AHSA2	AHA1, activator of heat shock 90kDa protein ATPase homolog 2 (yeast)	1.31E-07	Yes	No	No	Yes	No	No	No
3336	HSPH1	heat shock 10kDa protein 1 (chaperonin 10)	1.33E-07	No	No	Yes	No	No	No	No
26765	SNORD12C	small nucleolar RNA, C/D box 12C	1.33E-07	NA	No	No	No	Yes	No	No
7326	UBE2G1	ubiquitin-conjugating enzyme E2G 1 (UBC7 homolog, yeast)	1.34E-07	No	No	Yes	No	No	Yes	No
80314	EPC1	enhancer of polycomb homolog 1 (Drosophila)	1.34E-07	No	No	No	No	Yes	No	No
3756	KCNH1	potassium voltage-gated channel, subfamily H (eag-related), member 1	1.35E-07	No	No	No	Yes	No	No	No

10564	ARFGEF2	ADP-ribosylation factor guanine nucleotide-exchange factor 2 (brefeldin A-inhibited)	1.36E-07	No	No	Yes	No	No	No	No
6159	RPL29	ribosomal protein L29	1.38E-07	No	No	No	No	No	No	No
1054	CEBPG	CCAAT/enhancer binding protein (C/EBP), gamma	1.38E-07	No	No	No	Yes	No	Yes	No
4306	NR3C2	nuclear receptor subfamily 3, group C, member 2	1.38E-07	Yes	No	No	Yes	No	No	No
1633	DCK	deoxycytidine kinase	1.38E-07	No	No	No	Yes	No	Yes	No
221692	PHACTR1	phosphatase and actin regulator 1	1.40E-07	Yes	Yes	No	Yes	No	No	No
80020	FOXRED2	FAD-dependent oxidoreductase domain containing 2	1.40E-07	No	No	No	Yes	No	No	No
64927	TTC23	tetratricopeptide repeat domain 23	1.40E-07	No	No	Yes	No	No	No	No
123355	LRRC28	leucine rich repeat containing 28	1.40E-07	No	No	Yes	No	No	No	No
5138	PDE2A	phosphodiesterase 2A, cGMP-stimulated	1.40E-07	No	No	No	Yes	No	No	No
23473	CAPN7	calpain 7	1.40E-07	No	No	No	Yes	No	No	No
64951	MRPS24	mitochondrial ribosomal protein S24	1.41E-07	No	No	No	No	No	No	No
5763	PTMS	parathyrosin	1.42E-07	No	No	Yes	No	No	No	No
29126	CD274	CD274 molecule	1.42E-07	Yes	Yes	No	Yes	No	Yes	No
1786	DNMT1	DNA (cytosine-5)-methyltransferase 1	1.43E-07	No	No	Yes	No	No	No	No
51035	LOC51035	SAPK substrate protein 1	1.43E-07	No	No	Yes	No	No	Yes	No
6426	SFRS1	splicing factor, arginine/serine-rich 1 (splicing factor 2, alternate splicing factor)	1.44E-07	No	Yes	Yes	No	No	No	No
1121	CHM	choroideremia (Rab escort protein 1)	1.45E-07	Yes	No	No	No	No	No	No
57217	TTC7A	tetratricopeptide repeat domain 7A	1.45E-07	Yes	No	No	No	No	No	No
123872	LRRC50	leucine rich repeat containing 50	1.45E-07	No	No	Yes	No	No	No	No
64222	TOR3A	torsin family 3, member A	1.45E-07	No	No	No	Yes	No	Yes	No
2235	FECH	ferrochelatase (protoporphyrin)	1.46E-07	Yes	Yes	Yes	No	No	No	No
26002	MOXD1	monooxygenase, DBH-like 1	1.48E-07	Yes	No	No	Yes	No	No	No
10260	DENND4A	DENND4 domain containing 4A	1.49E-07	No	No	No	No	Yes	Yes	No
51284	TLR7	toll-like receptor 7	1.49E-07	Yes	Yes	No	Yes	No	No	No
56547	MMP26	matrix metalloproteinase 26	1.50E-07	No	No	No	Yes	No	No	No
64857	PLEKHG2	pleckstrin homology domain containing, family G (with RhoGef domain) member 2	1.50E-07	Yes	No	No	Yes	No	No	No
134391	GPR151	G protein-coupled receptor 151	1.51E-07	NA	No	Yes	No	No	No	No
158	ADSL	adenylosuccinate lyase	1.53E-07	No	No	No	Yes	No	No	No
56886	UGCG1	UDP-glucose ceramide glucosyltransferase-like 1	1.58E-07	No	No	Yes	No	No	No	No
5757	PTMA	prothymosin, alpha	1.60E-07	No	No	No	No	Yes	No	No
63931	MRPS14	mitochondrial ribosomal protein S14	1.60E-07	No	No	Yes	No	No	No	No
10444	ZER1	zer-1 homolog (C. elegans)	1.61E-07	No	No	No	No	No	No	No
22865	SLITRK3	SLIT and NTRK-like family, member 3	1.62E-07	No	No	No	No	No	No	No

29934	SNX12	sorting nexin 12	1.63E-07	No	No	No	Yes	No	No	No
9138	ARHGEF1	Rho guanine nucleotide exchange factor (GEF) 1	1.65E-07	Yes	No	No	Yes	No	Yes	Yes
9232	PTTG1	pituitary tumor-transforming 1	1.66E-07	No	No	Yes	No	No	Yes	No
10569	SLU7	SLU7 splicing factor homolog (S. cerevisiae)	1.66E-07	No	No	Yes	No	No	No	No
80333	KCNIP4	Kv channel interacting protein 4	1.67E-07	No	No	No	Yes	No	No	No
284406	ZNF545	zinc finger protein 545	1.67E-07	Yes	No	Yes	No	No	No	No
257415	FAM133B	family with sequence similarity 133, member B	1.67E-07	Yes	No	No	No	Yes	No	No
4552	MTRR	S-methyltetrahydrofolate-homocysteine methyltransferase reductase	1.68E-07	No	No	No	Yes	No	No	No
56255	TXNDC13	thioredoxin domain containing 13	1.68E-07	Yes	No	Yes	No	No	Yes	No
535	ATP6V0A1	ATPase, H+ transporting, lysosomal V0 subunit a1	1.68E-07	Yes	No	Yes	No	No	Yes	Yes
1583	CYP11A1	cytochrome P450, family 11, subfamily A, polypeptide 1	1.69E-07	No	No	Yes	No	No	No	No
5293	PIK3CD	phosphoinositide-3-kinase, catalytic, delta polypeptide	1.69E-07	No	No	Yes	No	No	No	No
222545	GPRC6A	G protein-coupled receptor, family C, group 6, member A	1.69E-07	No	No	No	Yes	No	No	No
659	BMPR2	bone morphogenetic protein receptor, type II (serine/threonine kinase)	1.70E-07	Yes	No	Yes	No	No	No	No
54507	ADAMTSL4	ADAMTS-like 4	1.70E-07	No	No	No	Yes	No	No	No
5308	PITX2	paired-like homeodomain 2	1.70E-07	No	No	Yes	No	No	No	No
1959	EGR2	early growth response 2 (Krox-20 homolog, Drosophila)	1.70E-07	No	No	Yes	No	No	Yes	No
64422	ATG3	ATG3 autophagy related 3 homolog (S. cerevisiae)	1.71E-07	No	No	Yes	No	No	Yes	No
149830	PRNT	prion protein (testis specific)	1.74E-07	No	No	Yes	No	No	No	No
5702	PSMC3	proteasome (prosome, macropain) 26S subunit, ATPase, 3	1.74E-07	No	No	No	Yes	No	Yes	No
3009	HIST1H1B	histone cluster 1, H1b	1.75E-07	No	No	Yes	No	No	No	No
22933	SIRT2	sirtuin (silent mating type information regulation 2 homolog) 2 (S. cerevisiae)	1.75E-07	No	No	No	No	Yes	No	No
4793	NFKBIB	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, beta	1.75E-07	No	No	No	No	Yes	No	No
51360	MBTPS2	membrane-bound transcription factor peptidase, site 2	1.75E-07	No	No	Yes	No	No	No	No
65244	SPATS2	spermatogenesis associated, serine-rich 2	1.76E-07	No	Yes	Yes	No	No	No	No
23406	COTL1	coactosin-like 1 (Dictyostelium)	1.76E-07	Yes	No	No	Yes	No	No	No
126969	SLC44A3	solute carrier family 44, member 3	1.76E-07	No	No	Yes	No	No	No	No
22848	AAK1	AP2 associated kinase 1	1.77E-07	No	No	Yes	No	No	No	No
55585	UBE2Q1	ubiquitin-conjugating enzyme E2Q family member 1	1.79E-07	No	No	Yes	No	No	Yes	No
9935	MAFB	v-maf musculoaponeurotic fibrosarcoma oncogene homolog B (avian)	1.80E-07	No	No	Yes	No	No	No	No
10598	AHSA1	AHA1, activator of heat shock 90kDa protein ATPase homolog 1 (yeast)	1.80E-07	No	No	No	Yes	No	No	No
1183	CLCN4	chloride channel 4	1.81E-07	No	No	Yes	No	No	No	No
4780	NFE2L2	nuclear factor (erythroid-derived 2)-like 2	1.81E-07	No	No	No	Yes	No	Yes	Yes
8852	AKAP4	A kinase (PRKA) anchor protein 4	1.81E-07	No	No	No	Yes	No	No	No

10168	ZNF197	zinc finger protein 197	1.82E-07	No	No	Yes	No	No	No	No
54847	SID1	SID1 transmembrane family, member 1	1.82E-07	Yes	Yes	Yes	No	No	Yes	No
6400	SEL1L	sel-1 suppressor of lin-12-like (C. elegans)	1.83E-07	Yes	No	No	Yes	No	No	No
1946	EFNA5	ephrin-A5	1.83E-07	No	No	Yes	No	No	No	No
11257	TP53AP1	TP53 activated protein 1	1.83E-07	No	No	Yes	No	No	No	No
705	BYSL	bystin-like	1.83E-07	No	No	Yes	No	No	Yes	No
6196	RPS6KA2	ribosomal protein S6 kinase, 90kDa, polypeptide 2	1.83E-07	No	No	Yes	No	No	Yes	No
140809	SRXN1	sulfiredoxin 1 homolog (S. cerevisiae)	1.84E-07	No	No	No	Yes	No	No	No
8208	CHAF1B	chromatin assembly factor 1, subunit B (p60)	1.85E-07	No	No	Yes	No	No	No	No
58190	CTDSP1	CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase 1	1.85E-07	No	No	No	Yes	No	Yes	No
64844	MARCH7	membrane-associated ring finger (C3HC4) 7	1.87E-07	No	No	No	Yes	No	No	No
80304	C2orf44	chromosome 2 open reading frame 44	1.89E-07	No	No	No	Yes	No	No	No
4802	NFYC	nuclear transcription factor Y, gamma	1.90E-07	No	Yes	Yes	No	No	Yes	No
9526	MPDU1	mannose-P-dolichol utilization defect 1	1.90E-07	No	No	No	No	No	No	No
8548	BLZF1	basic leucine zipper nuclear factor 1 (JEM-1)	1.91E-07	No	No	No	Yes	No	Yes	No
60	ACTB	actin, beta	1.91E-07	No	No	No	No	Yes	No	No
84281	MGC13057	hypothetical protein MGC13057	1.92E-07	No	Yes	Yes	No	No	No	No
7756	ZNF207	zinc finger protein 207	1.94E-07	Yes	No	Yes	No	No	No	No
80179	MYO19	myosin XIX	1.94E-07	No	No	No	No	Yes	No	No
284098	PIGW	phosphatidylinositol glycan anchor biosynthesis, class W	1.94E-07	No	No	No	Yes	No	No	No
10449	ACAA2	acetyl-Coenzyme A acyltransferase 2	1.98E-07	No	No	No	No	Yes	No	No
9055	PRC1	protein regulator of cytokinesis 1	1.98E-07	No	No	No	Yes	No	No	No
60678	EEFSEC	eukaryotic elongation factor, selenocysteine-tRNA-specific	1.98E-07	No	No	No	No	No	No	No
29881	NPC1L1	NPC1 (Niemann-Pick disease, type C1, gene)-like 1	1.98E-07	No	No	Yes	No	No	No	No
115123	MARCH3	membrane-associated ring finger (C3HC4) 3	1.99E-07	Yes	No	Yes	No	No	No	No
2696	GIPR	gastric inhibitory polypeptide receptor	2.00E-07	No	No	No	Yes	No	No	No
5594	MAPK1	mitogen-activated protein kinase 1	2.00E-07	Yes	No	No	Yes	No	Yes	No
81622	UNC93B1	unc-93 homolog B1 (C. elegans)	2.00E-07	Yes	No	No	No	No	No	No
9653	HS2ST1	heparan sulfate 2-O-sulfotransferase 1	2.01E-07	No	No	Yes	No	No	Yes	No
905	CCNT2	cyclin T2	2.01E-07	Yes	No	Yes	No	No	No	No
29767	TMOD2	tropomodulin 2 (neuronal)	2.02E-07	No	No	Yes	No	No	Yes	No
57650	KIAA1524	KIAA1524	2.02E-07	No	No	Yes	No	No	No	No
27173	SLC39A1	solute carrier family 39 (zinc transporter), member 1	2.03E-07	No	No	Yes	No	No	No	No
85320	ABCC11	ATP-binding cassette, sub-family C (CFTR/MRP), member 11	2.03E-07	No	No	Yes	No	No	No	No

55164	SHQ1	SHQ1 homolog (<i>S. cerevisiae</i>)	2.04E-07	No	No	No	Yes	No	No	No
5430	POLR2A	polymerase (RNA) II (DNA directed) polypeptide A, 220kDa	2.04E-07	No	No	Yes	No	No	Yes	No
650	BMP2	bone morphogenetic protein 2	2.09E-07	Yes	No	No	Yes	No	No	No
254158	CXorf58	chromosome X open reading frame 58	2.10E-07	No	No	No	Yes	No	No	No
284325	C19orf54	chromosome 19 open reading frame 54	2.10E-07	No	No	No	No	Yes	Yes	No
115350	FCRL1	Fc receptor-like 1	2.11E-07	Yes	No	No	Yes	No	No	No
197335	WDR90	WD repeat domain 90	2.12E-07	No	No	No	No	Yes	No	No
10988	METAP2	methionyl aminopeptidase 2	2.13E-07	No	Yes	Yes	No	No	No	No
64067	NPAS3	neuronal PAS domain protein 3	2.14E-07	No	No	Yes	No	No	No	No
9632	SEC24C	SEC24 related gene family, member C (<i>S. cerevisiae</i>)	2.17E-07	No	No	Yes	No	No	No	No
55748	CNDP2	CNDP dipeptidase 2 (metallopeptidase M20 family)	2.18E-07	No	No	Yes	No	No	No	No
1363	CPE	carboxypeptidase E	2.18E-07	Yes	No	No	No	Yes	No	No
397	ARHGDI3	Rho GDP dissociation inhibitor (GDI) beta	2.18E-07	No	No	Yes	No	No	No	No
5149	PDE6H	phosphodiesterase 6H, cGMP-specific, cone, gamma	2.18E-07	No	No	Yes	No	No	No	No
4946	OAZ1	ornithine decarboxylase antizyme 1	2.18E-07	No	No	No	No	Yes	No	No
4794	NFKBIE	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, epsilon	2.20E-07	Yes	Yes	Yes	No	No	No	No
4216	MAP3K4	mitogen-activated protein kinase kinase kinase 4	2.21E-07	No	No	Yes	No	No	No	No
255520	ELMOD2	ELMO/CED-12 domain containing 2	2.21E-07	No	No	Yes	No	No	No	No
10966	RAB40B	RAB40B, member RAS oncogene family	2.21E-07	No	No	No	No	No	No	No
10098	TSPAN5	tetraspanin 5	2.22E-07	Yes	No	Yes	No	No	No	No
54882	ANKHD1	ankyrin repeat and KH domain containing 1	2.22E-07	No	No	Yes	No	No	No	No
7133	TNFRSF1B	tumor necrosis factor receptor superfamily, member 1B	2.24E-07	Yes	No	Yes	No	No	No	No
154743	C7orf60	chromosome 7 open reading frame 60	2.26E-07	No	No	Yes	No	No	No	No
53371	NUP54	nucleoporin 54kDa	2.26E-07	No	No	Yes	No	No	Yes	No
7942	TFEB	transcription factor EB	2.27E-07	Yes	No	No	Yes	No	No	No
51070	NOSIP	nitric oxide synthase interacting protein	2.27E-07	No	No	No	Yes	No	Yes	No
5639	PRRG2	proline rich Gli (G-carboxyglutamic acid) 2	2.27E-07	No	No	No	Yes	No	No	No
174	AFP	alpha-fetoprotein	2.31E-07	No	No	Yes	No	No	No	No
54619	CCNJ	cyclin J	2.31E-07	No	No	Yes	No	No	No	No
124359	CDYL2	chromodomain protein, Y-like 2	2.32E-07	No	No	Yes	No	No	No	No
1536	CYBB	cytochrome b-245, beta polypeptide (chronic granulomatous disease)	2.34E-07	No	No	Yes	No	No	No	No
580	BARD1	BRCA1 associated RING domain 1	2.36E-07	No	No	Yes	No	No	No	No
25771	TBC1D22A	TBC1 domain family, member 22A	2.38E-07	Yes	No	Yes	No	No	Yes	No
846	CASR	calcium-sensing receptor (hypocalciuric hypercalcemia 1, severe neonatal hyperparathyroidism)	2.40E-07	No	No	Yes	No	No	No	No

9920	KBTBD11	kelch repeat and BTB (POZ) domain containing 11	2.44E-07	No	No	Yes	No	No	No	No
9689	BZW1	basic leucine zipper and W2 domains 1	2.45E-07	No	No	Yes	No	No	No	No
10018	BCL2L11	BCL2-like 11 (apoptosis facilitator)	2.46E-07	No	No	Yes	No	No	No	No
400997	FLJ44006	hypothetical FLJ44006	2.46E-07	NA	No	Yes	No	No	No	No
57820	CCNB1IP1	cyclin B1 interacting protein 1	2.49E-07	No	No	No	Yes	No	No	No
51339	DACT1	dapper, antagonist of beta-catenin, homolog 1 (Xenopus laevis)	2.51E-07	Yes	No	Yes	No	No	No	No
4722	NDUFS3	NADH dehydrogenase (ubiquinone) Fe-S protein 3, 30kDa (NADH-coenzyme Q reductase)	2.51E-07	No	No	Yes	No	No	No	No
6734	SRPR	signal recognition particle receptor (docking protein)	2.52E-07	No	No	No	No	Yes	No	No
55572	FOXRED1	FAD-dependent oxidoreductase domain containing 1	2.52E-07	No	No	No	No	Yes	No	No
23416	KCNH3	potassium voltage-gated channel, subfamily H (eag-related), member 3	2.52E-07	No	No	No	No	No	No	No
2776	GNAQ	guanine nucleotide binding protein (G protein), q polypeptide	2.56E-07	Yes	No	No	Yes	No	No	No
8312	AXIN1	axin 1	2.60E-07	Yes	No	Yes	No	No	No	No
57205	ATP10D	ATPase, class V, type 10D	2.65E-07	No	No	Yes	No	No	No	No
1843	DUSP1	dual specificity phosphatase 1	2.65E-07	Yes	No	No	No	Yes	No	No
79663	HSPBAP1	HSPB (heat shock 27kDa) associated protein 1	2.66E-07	Yes	No	Yes	No	No	Yes	No
84925	DIRC2	disrupted in renal carcinoma 2	2.66E-07	No	No	Yes	No	No	Yes	No
8139	GAN	giant axonal neuropathy (gigaxonin)	2.66E-07	No	No	No	No	No	Yes	No
941	CD80	CD80 molecule	2.67E-07	No	No	Yes	No	No	No	No
54997	TESC	tescalcin	2.67E-07	No	No	Yes	No	No	No	No
3626	INHBC	inhibin, beta C	2.67E-07	No	No	No	Yes	No	No	No
23080	KIAA0241	KIAA0241	2.67E-07	Yes	No	Yes	No	No	No	No
23658	LSM5	LSM5 homolog, U6 small nuclear RNA associated (S. cerevisiae)	2.67E-07	No	No	Yes	No	No	No	No
54665	RSBN1	round spermatid basic protein 1	2.71E-07	Yes	No	Yes	No	No	No	No
10979	FERMT2	fermitin family homolog 2 (Drosophila)	2.71E-07	No	No	Yes	No	No	No	No
2976	GTF3C2	general transcription factor IIC, polypeptide 2, beta 110kDa	2.72E-07	Yes	No	No	Yes	No	No	No
7444	VRK2	vaccinia related kinase 2	2.73E-07	NA	No	Yes	No	No	No	No
79651	RHBDF2	rhomboid 5 homolog 2 (Drosophila)	2.75E-07	No	No	No	Yes	No	No	No
9631	NUP155	nucleoporin 155kDa	2.76E-07	No	No	Yes	No	No	Yes	No
240	ALOX5	arachidonate 5-lipoxygenase	2.81E-07	No	No	Yes	No	No	No	No
55671	SMEK1	SMEK homolog 1, suppressor of mek1 (Dictyostelium)	2.83E-07	No	No	Yes	No	No	No	No
51092	SIDT2	SID1 transmembrane family, member 2	2.83E-07	Yes	No	Yes	No	No	No	No
7844	RNF103	ring finger protein 103	2.84E-07	No	No	Yes	No	No	No	No
411	ARSB	arylsulfatase B	2.85E-07	No	No	No	No	Yes	No	No
3192	HNRNPU	heterogeneous nuclear ribonucleoprotein U (scaffold attachment factor A)	2.86E-07	Yes	No	Yes	No	No	No	No

58480	RHOU	ras homolog gene family, member U	2.86E-07	No	No	Yes	No	No	No	No
50863	HNT	neurotrophin	2.87E-07	No	No	No	Yes	No	No	No
85450	KIAA1754	KIAA1754	2.88E-07	No	No	Yes	No	No	No	No
10333	TLR6	toll-like receptor 6	2.89E-07	No	No	No	No	No	No	No
4752	NEK3	NIMA (never in mitosis gene a)-related kinase 3	2.89E-07	Yes	No	No	Yes	No	No	No
6654	SOS1	son of sevenless homolog 1 (Drosophila)	2.90E-07	NA	No	No	Yes	No	No	No
8816	WDR22	WD repeat domain 22	2.90E-07	Yes	No	Yes	No	No	No	No
284525	SLC9A11	solute carrier family 9, member 11	2.90E-07	No	No	No	Yes	No	No	No
84124	ZNF394	zinc finger protein 394	2.91E-07	Yes	No	Yes	No	No	No	No
192683	SCAMP5	secretory carrier membrane protein 5	2.91E-07	No	No	No	Yes	No	No	No
8880	FUBP1	far upstream element (FUSE) binding protein 1	2.92E-07	No	No	No	Yes	No	No	No
84641	HIATL1	hippocampus abundant transcript-like 1	2.92E-07	No	No	Yes	No	No	No	No
84872	ZC3H10	zinc finger CCCH-type containing 10	2.92E-07	No	No	No	No	Yes	Yes	No
83943	IMMP2L	IMP2 inner mitochondrial membrane peptidase-like (S. cerevisiae)	2.93E-07	No	No	Yes	No	No	No	No
253260	RICTOR	rapamycin-insensitive companion of mTOR	2.95E-07	No	No	Yes	No	No	No	No
5862	RAB2A	RAB2A, member RAS oncogene family	2.95E-07	No	No	Yes	No	No	No	No
7582	ZNF33B	zinc finger protein 33B	2.97E-07	No	No	Yes	No	No	No	No
10175	CNIH	cornichon homolog (Drosophila)	2.97E-07	No	No	Yes	No	No	No	No
11201	POLI	polymerase (DNA directed) iota	3.00E-07	Yes	No	No	Yes	No	No	No
54718	BTN2A3	butyrophilin, subfamily 2, member A3	3.00E-07	No	No	No	Yes	No	No	No
55173	MRPS10	mitochondrial ribosomal protein S10	3.00E-07	No	No	No	Yes	No	No	No
135152	B3GAT2	beta-1,3-glucuronyltransferase 2 (glucuronosyltransferase S)	3.03E-07	NA	No	No	Yes	No	No	No
58513	EPS15L1	epidermal growth factor receptor pathway substrate 15-like 1	3.06E-07	No	No	No	No	Yes	No	No
23515	MORC3	MORC family CW-type zinc finger 3	3.09E-07	Yes	No	Yes	No	No	No	No
9255	SCYE1	small inducible cytokine subfamily E, member 1 (endothelial monocyte-activating)	3.09E-07	No	No	Yes	No	No	Yes	No
93627	MGC16169	hypothetical protein MGC16169	3.09E-07	No	No	Yes	No	No	Yes	No
283	ANG	angiogenin, ribonuclease, RNase A family, 5	3.14E-07	Yes	No	No	Yes	No	Yes	No
10904	BLCAP	bladder cancer associated protein	3.16E-07	No	No	No	Yes	No	No	No
55359	STYK1	serine/threonine/tyrosine kinase 1	3.16E-07	No	No	Yes	No	No	No	No
9575	CLOCK	clock homolog (mouse)	3.17E-07	Yes	No	No	Yes	No	Yes	Yes
3454	IFNAR1	interferon (alpha, beta and omega) receptor 1	3.17E-07	Yes	No	No	Yes	No	No	No
55015	PRPF39	PRP39 pre-mRNA processing factor 39 homolog (S. cerevisiae)	3.17E-07	No	No	Yes	No	No	Yes	No
6773	STAT2	signal transducer and activator of transcription 2, 113kDa	3.23E-07	No	No	Yes	No	No	No	No
10134	BCAP31	B-cell receptor-associated protein 31	3.24E-07	Yes	No	No	No	No	No	No

26103	LRIT1	leucine-rich repeat, immunoglobulin-like and transmembrane domains 1	3.26E-07	No	No	No	Yes	No	No	No
4209	MEF2D	myocyte enhancer factor 2D	3.27E-07	No	No	No	Yes	No	No	No
55110	MAGOHB	mago-nashi homolog B (Drosophila)	3.29E-07	No	No	Yes	No	No	No	No
55843	ARHGAP15	Rho GTPase activating protein 15	3.31E-07	Yes	No	Yes	No	No	Yes	No
8030	CCDC6	coiled-coil domain containing 6	3.32E-07	No	No	Yes	No	No	No	No
348980	HCN1	hyperpolarization activated cyclic nucleotide-gated potassium channel 1	3.33E-07	No	No	Yes	No	No	No	No
51611	DPH5	DPH5 homolog (S. cerevisiae)	3.33E-07	Yes	Yes	Yes	No	No	No	No
4830	NME1	non-metastatic cells 1, protein (NM23A) expressed in	3.33E-07	No	No	No	Yes	No	No	No
126433	FBXO27	F-box protein 27	3.33E-07	No	No	No	Yes	No	No	No
8522	GAS7	growth arrest-specific 7	3.37E-07	No	No	No	Yes	No	No	No
51335	NGRN	neugrin, neurite outgrowth associated	3.40E-07	No	No	Yes	No	No	No	No
9330	GTF3C3	general transcription factor IIIc, polypeptide 3, 102kDa	3.40E-07	No	No	No	Yes	No	No	No
6157	RPL27A	ribosomal protein L27a	3.41E-07	No	No	No	No	Yes	No	No
8195	MKKS	McKusick-Kaufman syndrome	3.41E-07	Yes	No	Yes	No	No	No	No
389421	LIN28B	lin-28 homolog B (C. elegans)	3.43E-07	No	No	Yes	No	No	No	No
84668	FAM126A	family with sequence similarity 126, member A	3.45E-07	Yes	No	Yes	No	No	No	No
79684	C11orf61	chromosome 11 open reading frame 61	3.46E-07	No	No	Yes	No	No	No	No
166614	DCLK2	doublecortin-like kinase 2	3.48E-07	Yes	No	Yes	No	No	No	No
3998	LMAN1	lectin, mannose-binding, 1	3.48E-07	No	No	Yes	No	No	No	No
5806	PTX3	pentraxin-related gene, rapidly induced by IL-1 beta	3.53E-07	No	No	Yes	No	No	No	No
84923	FAM104A	family with sequence similarity 104, member A	3.53E-07	No	No	Yes	No	No	No	No
60682	SMAP1	stromal membrane-associated GTPase-activating protein 1	3.53E-07	No	No	No	Yes	No	No	No
5094	PCBP2	poly(rC) binding protein 2	3.53E-07	No	No	No	No	Yes	No	No
3575	IL7R	interleukin 7 receptor	3.53E-07	Yes	No	No	Yes	No	No	No
51720	UIMC1	ubiquitin interaction motif containing 1	3.55E-07	No	No	Yes	No	No	No	No
79898	ZNF613	zinc finger protein 613	3.56E-07	NA	No	No	No	No	Yes	No
5689	PSMB1	proteasome (prosome, macropain) subunit, beta type, 1	3.59E-07	No	No	Yes	No	No	No	No
677	ZFP36L1	zinc finger protein 36, C3H type-like 1	3.60E-07	Yes	No	Yes	No	No	Yes	Yes
4242	MFNG	MFNG O-fucosylpeptide 3-beta-N-acetylglucosaminyltransferase	3.60E-07	No	No	No	Yes	No	No	No
80124	VCIPI1	valosin containing protein (p97)/p47 complex interacting protein 1	3.62E-07	No	No	Yes	No	No	Yes	No
25996	REXO2	REX2, RNA exonuclease 2 homolog (S. cerevisiae)	3.63E-07	No	No	Yes	No	No	No	No
60558	GUF1	GUF1 GTPase homolog (S. cerevisiae)	3.68E-07	No	No	Yes	No	No	No	No
3146	HMG1	high-mobility group box 1	3.70E-07	No	No	Yes	No	No	Yes	No
390075	OR52N5	olfactory receptor, family 52, subfamily N, member 5	3.71E-07	NA	No	Yes	No	No	No	No

36	ACADSB	acyl-Coenzyme A dehydrogenase, short/branched chain	3.73E-07	Yes	No	No	Yes	No	No	No
84844	PHF5A	PHD finger protein 5A	3.76E-07	No	No	Yes	No	No	No	No
50	ACO2	aconitase 2, mitochondrial	3.76E-07	No	No	Yes	No	No	No	No
3796	KIF2A	kinesin heavy chain member 2A	3.79E-07	No	No	No	Yes	No	No	No
10054	UBA2	ubiquitin-like modifier activating enzyme 2	3.80E-07	No	No	Yes	No	No	No	No
9646	CTR9	Ctr9, Paf1/RNA polymerase II complex component, homolog (S. cerevisiae)	3.80E-07	Yes	No	Yes	No	No	No	No
10664	CTCF	CCCTC-binding factor (zinc finger protein)	3.81E-07	No	No	Yes	No	No	No	No
50484	RRM2B	ribonucleotide reductase M2 B (TP53 inducible)	3.85E-07	No	No	No	Yes	No	Yes	No
9785	DHX38	DEAH (Asp-Glu-Ala-His) box polypeptide 38	3.87E-07	No	No	No	No	Yes	No	No
402665	LOC402665	hCG 1651476	3.89E-07	NA	No	Yes	No	No	No	No
9669	EIF5B	eukaryotic translation initiation factor 5B	3.90E-07	Yes	No	Yes	No	No	Yes	No
10190	TXNDC9	thioredoxin domain containing 9	3.90E-07	No	No	Yes	No	No	Yes	No
1725	DHPS	deoxyhypusine synthase	3.90E-07	No	No	Yes	No	No	No	No
6832	SUPV3L1	suppressor of var1, 3-like 1 (S. cerevisiae)	3.91E-07	No	No	No	Yes	No	Yes	No
23786	BCL2L13	BCL2-like 13 (apoptosis facilitator)	3.94E-07	No	No	No	No	No	No	No
55609	ZNF280C	zinc finger protein 280C	3.94E-07	No	No	Yes	No	No	No	No
2029	ENSA	endosulfine alpha	3.95E-07	No	No	No	No	No	No	No
93134	ZNF561	zinc finger protein 561	4.01E-07	Yes	No	Yes	No	No	No	No
51744	CD244	CD244 molecule, natural killer cell receptor 2B4	4.05E-07	No	No	Yes	No	No	No	No
1659	DHX8	DEAH (Asp-Glu-Ala-His) box polypeptide 8	4.07E-07	No	No	Yes	No	No	No	No
134553	C5orf24	chromosome 5 open reading frame 24	4.08E-07	No	Yes	Yes	No	No	No	No
3936	LCP1	lymphocyte cytosolic protein 1 (L-plastin)	4.09E-07	No	No	Yes	No	No	No	No
25914	RTTN	rotatin	4.09E-07	No	No	No	Yes	No	Yes	No
10748	KLRA1	killer cell lectin-like receptor subfamily A, member 1	4.09E-07	No	No	No	Yes	No	No	No
170302	ARX	aristales related homeobox	4.09E-07	Yes	No	Yes	No	No	No	No
5989	RFX1	regulatory factor X, 1 (influences HLA class II expression)	4.11E-07	Yes	No	Yes	No	No	No	No
4087	SMAD2	SMAD family member 2	4.14E-07	No	No	Yes	No	No	No	No
80212	CCDC92	coiled-coil domain containing 92	4.15E-07	No	No	Yes	No	No	No	No
133022	TRAM1L1	translocation associated membrane protein 1-like 1	4.15E-07	No	No	Yes	No	No	No	No
29942	PURG	purine-rich element binding protein G	4.15E-07	No	No	No	No	Yes	Yes	No
5993	RFX5	regulatory factor X, 5 (influences HLA class II expression)	4.15E-07	No	No	Yes	No	No	No	No
169026	SLC30A8	solute carrier family 30 (zinc transporter), member 8	4.18E-07	No	No	No	Yes	No	No	No
171017	ZNF384	zinc finger protein 384	4.18E-07	No	No	Yes	No	No	No	No
372	ARCN1	archain 1	4.20E-07	No	No	Yes	No	No	No	No

27257	LSM1	LSM1 homolog, U6 small nuclear RNA associated (S. cerevisiae)	4.21E-07	No	No	No	Yes	No	Yes	No
911	CD1C	CD1c molecule	4.21E-07	Yes	No	No	No	No	No	No
29103	DNAJC15	DnaJ (Hsp40) homolog, subfamily C, member 15	4.24E-07	No	No	No	No	Yes	No	No
80174	DBF4B	DBF4 homolog B (S. cerevisiae)	4.25E-07	No	No	Yes	No	No	Yes	No
51735	RAPGEF6	Rap guanine nucleotide exchange factor (GEF) 6	4.28E-07	No	No	Yes	No	No	No	No
151525	WDSUB1	WD repeat, sterile alpha motif and U-box domain containing 1	4.28E-07	Yes	No	Yes	No	No	No	No
117178	SSX2IP	synovial sarcoma, X breakpoint 2 interacting protein	4.28E-07	No	No	Yes	No	No	Yes	No
56768	NGLY1	N-glycanase 1	4.31E-07	No	No	No	No	Yes	Yes	No
10447	FAM3C	family with sequence similarity 3, member C	4.32E-07	No	No	Yes	No	No	No	No
55505	NOLA3	nucleolar protein family A, member 3 (H/ACA small nucleolar RNPs)	4.32E-07	No	No	Yes	No	No	No	No
388272	C16orf87	chromosome 16 open reading frame 87	4.33E-07	No	No	Yes	No	No	No	No
2018	EMX2	empty spiracles homeobox 2	4.33E-07	No	No	No	Yes	No	No	No
285636	LOC285636	hypothetical protein LOC285636	4.33E-07	No	No	Yes	No	No	No	No
9517	SPTLC2	serine palmitoyltransferase, long chain base subunit 2	4.34E-07	Yes	No	Yes	No	No	No	No
56097	PCDHGC5	protocadherin gamma subfamily C, 5	4.35E-07	No	No	No	Yes	No	No	No
4144	MAT2A	methionine adenosyltransferase II, alpha	4.37E-07	No	No	Yes	No	No	No	No
5298	PI4KB	phosphatidylinositol 4-kinase, catalytic, beta	4.37E-07	Yes	No	Yes	No	No	Yes	Yes
143888	KDEL2	KDEL (Lys-Asp-Glu-Leu) containing 2	4.37E-07	No	No	Yes	No	No	No	No
79930	DOK3	docking protein 3	4.40E-07	Yes	No	No	Yes	No	No	No
79862	ZNF669	zinc finger protein 669	4.40E-07	No	Yes	Yes	No	No	No	No
1182	CLCN3	chloride channel 3	4.41E-07	No	No	Yes	No	No	Yes	No
4750	NEK1	NIMA (never in mitosis gene a)-related kinase 1	4.41E-07	No	No	Yes	No	No	No	No
7014	TERF2	telomeric repeat binding factor 2	4.43E-07	No	No	No	Yes	No	No	No
143187	VT1A	vesicle transport through interaction with t-SNAREs homolog 1A (yeast)	4.44E-07	Yes	No	No	No	Yes	Yes	No
64429	ZDHHC6	zinc finger, DHHC-type containing 6	4.44E-07	No	No	No	No	Yes	Yes	No
284611	FAM102B	family with sequence similarity 102, member B	4.45E-07	No	No	Yes	No	No	No	No
79974	C7orf58	chromosome 7 open reading frame 58	4.46E-07	Yes	No	No	No	Yes	No	No
5700	PSMC1	proteasome (prosome, macropain) 26S subunit, ATPase, 1	4.47E-07	No	No	Yes	No	No	No	No
57708	MIER1	mesoderm induction early response 1 homolog (Xenopus laevis)	4.47E-07	No	No	Yes	No	No	No	No
3792	KEL	Kell blood group, metallo-endopeptidase	4.48E-07	No	No	No	Yes	No	No	No
55028	C17orf80	chromosome 17 open reading frame 80	4.51E-07	No	No	Yes	No	No	No	No
5028	P2RY1	purinergic receptor P2Y, G-protein coupled, 1	4.51E-07	No	No	Yes	No	No	No	No
402415	XKRX	XK, Kell blood group complex subunit-related, X-linked	4.52E-07	No	No	No	Yes	No	No	No
5147	PDE6D	phosphodiesterase 6D, cGMP-specific, rod, delta	4.54E-07	No	No	Yes	No	No	No	No

64708	COPS7B	COP9 constitutive photomorphogenic homolog subunit 7B (Arabidopsis)	4.54E-07	No	No	Yes	No	No	No	No
1847	DUSP5	dual specificity phosphatase 5	4.55E-07	Yes	No	No	No	Yes	Yes	No
1409	CRYAA	crystallin, alpha A	4.55E-07	No	No	No	No	No	No	No
51773	RSF1	remodeling and spacing factor 1	4.56E-07	Yes	No	Yes	No	No	No	No
55743	CHFR	checkpoint with forkhead and ring finger domains	4.57E-07	No	No	Yes	No	No	No	No
89796	NAV1	neuron navigator 1	4.58E-07	Yes	No	No	No	Yes	No	No
63925	ZNF335	zinc finger protein 335	4.63E-07	No	No	Yes	No	No	Yes	No
80306	MED28	mediator complex subunit 28	4.66E-07	No	No	Yes	No	No	No	No
85403	EAF1	ELL associated factor 1	4.67E-07	No	No	No	No	Yes	No	No
27347	STK39	serine threonine kinase 39 (STE20/SPS1 homolog, yeast)	4.68E-07	No	No	Yes	No	No	No	No
864	RUNX3	runt-related transcription factor 3	4.69E-07	Yes	No	Yes	No	No	No	No
55704	CCDC88A	coiled-coil domain containing 88A	4.70E-07	No	Yes	No	Yes	No	No	No
8495	PPFIBP2	PTPRF interacting protein, binding protein 2 (Iiprin beta 2)	4.70E-07	Yes	No	No	Yes	No	Yes	No
441381	LRRC24	leucine rich repeat containing 24	4.70E-07	No	No	No	No	No	No	No
662	BNIP1	BCL2/adenovirus E1B 19kDa interacting protein 1	4.71E-07	No	No	No	No	No	No	No
2308	FOXO1	forkhead box O1	4.71E-07	Yes	No	No	No	Yes	Yes	Yes
9797	TATDN2	TatD DNase domain containing 2	4.71E-07	No	No	No	No	Yes	No	No
92565	FANK1	fibronectin type III and ankyrin repeat domains 1	4.75E-07	No	No	No	Yes	No	No	No
9261	MAPKAPK2	mitogen-activated protein kinase-activated protein kinase 2	4.79E-07	No	No	Yes	No	No	No	No
23261	CAMTA1	calmodulin binding transcription activator 1	4.85E-07	No	No	No	No	Yes	No	No
51614	ERGIC3	ERGIC and golgi 3	4.87E-07	No	No	No	Yes	No	No	No
26135	SERBP1	SERPINE1 mRNA binding protein 1	4.87E-07	No	No	Yes	No	No	Yes	No
27436	EML4	echinoderm microtubule associated protein like 4	4.87E-07	Yes	No	Yes	No	No	No	No
11007	CCDC85B	coiled-coil domain containing 85B	4.87E-07	Yes	No	Yes	No	No	Yes	Yes
9158	FIBP	fibroblast growth factor (acidic) intracellular binding protein	4.87E-07	No	No	Yes	No	No	Yes	No
6048	RNF5	ring finger protein 5	4.91E-07	No	No	No	Yes	No	No	No
23541	SEC14L2	SEC14-like 2 (S. cerevisiae)	4.92E-07	No	No	No	Yes	No	Yes	No
1596	CYP51A1	cytochrome P450, family 51, subfamily A, polypeptide 1	4.92E-07	No	No	No	Yes	No	No	No
53340	SPA17	sperm autoantigenic protein 17	4.95E-07	No	No	Yes	No	No	No	No
2902	GRIN1	glutamate receptor, ionotropic, N-methyl D-aspartate 1	4.95E-07	No	No	No	No	No	No	No
4528	MTIF2	mitochondrial translational initiation factor 2	5.00E-07	No	No	Yes	No	No	No	No
7692	ZNF133	zinc finger protein 133	5.02E-07	Yes	No	Yes	No	No	No	No
26127	FGFR1OP2	FGFR1 oncogene partner 2	5.02E-07	No	No	Yes	No	No	No	No
7549	ZNF2	zinc finger protein 2	5.02E-07	No	No	Yes	No	No	Yes	No

84874	ZNF514	zinc finger protein 514	5.02E-07	No	No	Yes	No	No	No	No
4324	MMP15	matrix metalloproteinase 15 (membrane-inserted)	5.05E-07	No	No	No	Yes	No	No	No
8842	PROM1	prominin 1	5.07E-07	No	No	Yes	No	No	No	No
22926	ATF6	activating transcription factor 6	5.12E-07	Yes	No	No	Yes	No	Yes	No
10097	ACTR2	ARP2 actin-related protein 2 homolog (yeast)	5.12E-07	No	No	Yes	No	No	No	No
5412	UBL3	ubiquitin-like 3	5.14E-07	Yes	No	Yes	No	No	No	No
203260	CCDC107	coiled-coil domain containing 107	5.15E-07	No	No	Yes	No	No	No	No
27240	SIT1	signaling threshold regulating transmembrane adaptor 1	5.15E-07	No	No	Yes	No	No	No	No
84456	L3MBTL3	l(3)mbt-like 3 (Drosophila)	5.17E-07	Yes	No	Yes	No	No	No	No
7155	TOP2B	topoisomerase (DNA) II beta 180kDa	5.20E-07	No	No	Yes	No	No	Yes	No
79585	CORO7	coronin 7	5.22E-07	No	No	Yes	No	No	No	No
6921	TCEB1	transcription elongation factor B (SIII), polypeptide 1 (15kDa, elongin C)	5.23E-07	No	No	No	Yes	No	No	No
54968	TMEM70	transmembrane protein 70	5.23E-07	No	No	No	Yes	No	No	No
5531	PPP4C	protein phosphatase 4 (formerly X), catalytic subunit	5.23E-07	No	No	Yes	No	No	No	No
137209	ZNF572	zinc finger protein 572	5.26E-07	No	No	Yes	No	No	No	No
345778	MTX3	metaxin 3	5.29E-07	Yes	No	Yes	No	No	No	No
8667	EIF3H	eukaryotic translation initiation factor 3, subunit H	5.31E-07	No	No	Yes	No	No	No	No
54331	GNG2	guanine nucleotide binding protein (G protein), gamma 2	5.32E-07	No	No	Yes	No	No	No	No
5977	DPF2	D4, zinc and double PHD fingers family 2	5.42E-07	No	No	No	Yes	No	No	No
9817	KEAP1	kelch-like ECH-associated protein 1	5.42E-07	No	No	Yes	No	No	No	No
4693	NDP	Norrie disease (pseudoglioma)	5.42E-07	No	No	Yes	No	No	No	No
55650	PIGV	phosphatidylinositol glycan anchor biosynthesis, class V	5.43E-07	No	No	No	Yes	No	No	No
10420	TESK2	testis-specific kinase 2	5.44E-07	No	No	Yes	No	No	No	No
25974	MMACHC	methylmalonic aciduria (cobalamin deficiency) cblC type, with homocystinuria	5.44E-07	No	No	Yes	No	No	No	No
57142	RTN4	reticulon 4	5.49E-07	Yes	Yes	Yes	No	No	No	No
441639	OR9K2	olfactory receptor, family 9, subfamily K, member 2	5.53E-07	NA	No	Yes	No	No	No	No
23626	SPO11	SPO11 meiotic protein covalently bound to DSB homolog (S. cerevisiae)	5.54E-07	No	No	No	No	Yes	No	No
25921	ZDHHC5	zinc finger, DHHC-type containing 5	5.54E-07	No	No	Yes	No	No	No	No
145942	TMCO5A	transmembrane and coiled-coil domains 5A	5.55E-07	Yes	No	Yes	No	No	No	No
1890	TYMP	thymidine phosphorylase	5.57E-07	Yes	No	No	No	No	Yes	Yes
10	NAT2	N-acetyltransferase 2 (arylamine N-acetyltransferase)	5.63E-07	Yes	No	No	No	No	No	No
79088	ZNF426	zinc finger protein 426	5.71E-07	Yes	No	Yes	No	No	No	No
55319	C4orf43	chromosome 4 open reading frame 43	5.71E-07	No	No	No	Yes	No	Yes	No
284066	NEK8	NIMA (never in mitosis gene a)- related kinase 8	5.73E-07	No	No	No	Yes	No	Yes	No

6430	SFRS5	splicing factor, arginine/serine-rich 5	5.75E-07	No	No	Yes	No	No	No	No
197258	FUK	fucokinase	5.75E-07	No	No	Yes	No	No	No	No
55785	FGD6	FYVE, RhoGEF and PH domain containing 6	5.81E-07	No	No	Yes	No	No	No	No
79750	ZNF385D	zinc finger protein 385D	5.82E-07	Yes	No	Yes	No	No	No	No
1808	DPYSL2	dihydropyrimidinase-like 2	5.83E-07	No	No	No	No	Yes	No	No
51535	PHLN1	periplin 1	5.88E-07	No	No	No	Yes	No	Yes	No
9683	N4BP1	NEDD4 binding protein 1	5.88E-07	No	No	No	No	No	Yes	No
10240	MRPS31	mitochondrial ribosomal protein S31	5.88E-07	No	No	No	Yes	No	Yes	No
4238	MFAP3	microfibrillar-associated protein 3	5.89E-07	No	No	Yes	No	No	Yes	No
10201	NME6	non-metastatic cells 6, protein expressed in (nucleoside-diphosphate kinase)	5.91E-07	No	No	No	Yes	No	No	No
808	CALM3	calmodulin 3 (phosphorylase kinase, delta)	5.99E-07	No	No	No	No	Yes	No	No
10350	ABCA9	ATP-binding cassette, sub-family A (ABC1), member 9	5.99E-07	No	No	Yes	No	No	No	No
55197	P15RS	cyclin-dependent kinase 2B-inhibitor-related protein	6.01E-07	Yes	Yes	Yes	No	No	No	No
80817	KIAA1712	KIAA1712	6.02E-07	No	No	Yes	No	No	Yes	No
10393	ANAPC10	anaphase promoting complex subunit 10	6.04E-07	No	Yes	No	Yes	No	Yes	No
51593	ARS2	arsenate resistance protein 2	6.05E-07	Yes	No	No	Yes	No	No	No
55754	TMEM30A	transmembrane protein 30A	6.05E-07	No	No	Yes	No	No	No	No
1983	EIF5	eukaryotic translation initiation factor 5	6.06E-07	Yes	No	No	Yes	No	No	No
9662	CEP135	centrosomal protein 135kDa	6.08E-07	No	Yes	No	No	No	No	No
158747	MOSPD2	motile sperm domain containing 2	6.09E-07	No	No	No	Yes	No	No	No
23582	CCNDBP1	cyclin D-type binding-protein 1	6.09E-07	No	No	No	No	No	No	No
665	BNIP3L	BCL2/adenovirus E1B 19kDa interacting protein 3-like	6.11E-07	No	No	Yes	No	No	No	No
10531	PITRM1	pitriysin metalloproteinase 1	6.12E-07	No	No	Yes	No	No	No	No
81624	DIAPH3	diaphanous homolog 3 (Drosophila)	6.13E-07	No	No	No	Yes	No	No	No
89857	KLHL6	kelch-like 6 (Drosophila)	6.13E-07	No	Yes	No	Yes	No	No	No
10605	PAIP1	poly(A) binding protein interacting protein 1	6.14E-07	No	No	Yes	No	No	Yes	No
5937	RBMS1	RNA binding motif, single stranded interacting protein 1	6.16E-07	Yes	No	Yes	No	No	No	No
292	SLC25A5	solute carrier family 25 (mitochondrial carrier, adenine nucleotide translocator), member 5	6.19E-07	No	No	No	Yes	No	No	No
196264	MPZL3	myelin protein zero-like 3	6.21E-07	NA	No	No	Yes	No	No	No
55254	TMEM39A	transmembrane protein 39A	6.22E-07	Yes	Yes	No	No	No	No	No
8693	GALNT4	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 4 (GalNAc-T4)	6.24E-07	No	No	Yes	No	No	No	No
1452	CSNK1A1	casein kinase 1, alpha 1	6.25E-07	No	Yes	No	Yes	No	Yes	No
84858	ZNF503	zinc finger protein 503	6.25E-07	No	No	Yes	No	No	Yes	No
53938	PPIL3	peptidylprolyl isomerase (cyclophilin)-like 3	6.29E-07	No	No	No	No	No	No	No

4726	NDUFS6	NADH dehydrogenase (ubiquinone) Fe-S protein 6, 13kDa (NADH-coenzyme Q reductase)	6.29E-07	No	No	Yes	No	No	Yes	No
64979	MRPL36	mitochondrial ribosomal protein L36	6.29E-07	No	No	Yes	No	No	Yes	No
55761	TTC17	tetratricopeptide repeat domain 17	6.29E-07	No	No	No	Yes	No	No	No
2332	FMR1	fragile X mental retardation 1	6.30E-07	No	No	Yes	No	No	No	No
9705	ST18	suppression of tumorigenicity 18 (breast carcinoma) (zinc finger protein)	6.33E-07	No	No	Yes	No	No	No	No
84280	BTBD10	BTB (POZ) domain containing 10	6.35E-07	No	No	Yes	No	No	No	No
57343	ZNF304	zinc finger protein 304	6.37E-07	Yes	No	Yes	No	No	Yes	No
339302	CPLX4	complexin 4	6.37E-07	NA	No	No	Yes	No	No	No
51194	IPO11	importin 11	6.39E-07	No	No	Yes	No	No	Yes	No
27292	DIMT1L	DIM1 dimethyladenosine transferase 1-like (S. cerevisiae)	6.39E-07	No	No	Yes	No	No	No	No
150771	KIAA1754L	KIAA1754-like	6.39E-07	No	No	Yes	No	No	No	No
23308	ICOSLG	inducible T-cell co-stimulator ligand	6.40E-07	Yes	No	Yes	No	No	No	No
9439	MED23	mediator complex subunit 23	6.48E-07	No	No	Yes	No	No	Yes	No
55796	MBNL3	muscleblind-like 3 (Drosophila)	6.48E-07	No	No	Yes	No	No	No	No
220972	MARCH8	membrane-associated ring finger (C3HC4) 8	6.48E-07	No	No	Yes	No	No	No	No
80173	IFT74	intraflagellar transport 74 homolog (Chlamydomonas)	6.52E-07	No	No	Yes	No	No	No	No
9373	PLAA	phospholipase A2-activating protein	6.52E-07	No	No	Yes	No	No	No	No
51586	MED15	mediator complex subunit 15	6.56E-07	No	No	No	Yes	No	No	No
25940	FAM98A	family with sequence similarity 98, member A	6.59E-07	Yes	No	Yes	No	No	No	No
205327	FLJ38973	hypothetical protein FLJ38973	6.60E-07	No	No	Yes	No	No	No	No
6520	SLC3A2	solute carrier family 3 (activators of dibasic and neutral amino acid transport), member 2	6.60E-07	No	No	Yes	No	No	Yes	Yes
9303	SNORD25	small nucleolar RNA, C/D box 25	6.60E-07	NA	No	Yes	No	No	No	No
79595	SAP130	Sin3A-associated protein, 130kDa	6.60E-07	No	No	No	Yes	No	No	No
4664	NAB1	NGF1-A binding protein 1 (EGR1 binding protein 1)	6.61E-07	No	No	No	Yes	No	No	No
9482	STX8	syntaxin 8	6.63E-07	No	No	Yes	No	No	Yes	No
5879	RAC1	ras-related C3 botulinum toxin substrate 1 (rho family, small GTP binding protein Ract)	6.64E-07	No	No	No	No	Yes	No	No
6503	SLA	Src-like-adaptor	6.67E-07	Yes	No	No	No	No	No	No
286	ANK1	ankyrin 1, erythrocytic	6.70E-07	No	No	Yes	No	No	No	No
23020	ASCC3L1	activating signal cointegrator 1 complex subunit 3-like 1	6.75E-07	No	No	Yes	No	No	Yes	No
6932	TCF7	transcription factor 7 (T-cell specific, HMG-box)	6.77E-07	No	No	No	No	No	No	No
199223	TTC21A	tetratricopeptide repeat domain 21A	6.78E-07	No	No	Yes	No	No	No	No
1024	CDK8	cyclin-dependent kinase 8	6.80E-07	Yes	Yes	Yes	No	No	No	No
57556	SEMA6A	sema domain, transmembrane domain (TM), and cytoplasmic domain, (semaphorin) 6A	6.80E-07	No	No	Yes	No	No	No	No
23481	PES1	pescadillo homolog 1, containing BRCT domain (zebrafish)	6.82E-07	No	No	Yes	No	No	No	No

2353	FOS	v-fos FBJ murine osteosarcoma viral oncogene homolog	6.84E-07	No	No	Yes	No	No	Yes	No
48	ACO1	aconitase 1, soluble	6.86E-07	Yes	No	Yes	No	No	No	No
10106	CTDSP2	CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase 2	6.86E-07	No	Yes	Yes	No	No	No	No
8805	TRIM24	tripartite motif-containing 24	6.92E-07	No	No	Yes	No	No	No	No
57127	RHBG	Rh family, B glycoprotein	6.92E-07	No	No	Yes	No	No	No	No
64147	KIF9	kinesin family member 9	6.92E-07	No	No	No	Yes	No	No	No
23276	KLHL18	kelch-like 18 (Drosophila)	6.92E-07	No	No	No	Yes	No	No	No
56341	LSG1	large subunit GTPase 1 homolog (S. cerevisiae)	6.93E-07	No	No	No	Yes	No	No	No
81609	SNX27	sorting nexin family member 27	6.95E-07	No	No	Yes	No	No	No	No
25864	ABHD14A	abhydrolase domain containing 14A	6.99E-07	No	No	No	No	No	No	No
55677	IWS1	IWS1 homolog (S. cerevisiae)	7.05E-07	No	No	Yes	No	No	Yes	No
55234	SMU1	smu-1 suppressor of mec-8 and unc-52 homolog (C. elegans)	7.06E-07	Yes	No	Yes	No	No	No	No
154	ADRB2	adrenergic, beta-2-, receptor, surface	7.06E-07	Yes	No	Yes	No	No	No	No
9140	ATG12	ATG12 autophagy related 12 homolog (S. cerevisiae)	7.07E-07	No	No	Yes	No	No	Yes	No
5411	PNN	pinin, desmosome associated protein	7.08E-07	No	Yes	Yes	No	No	No	No
117583	PARD3B	par-3 partitioning defective 3 homolog B (C. elegans)	7.11E-07	No	No	Yes	No	No	No	No
50808	AK3	adenylate kinase 3	7.11E-07	No	No	Yes	No	No	No	No
83992	CTTNBP2	cortactin binding protein 2	7.11E-07	No	No	No	Yes	No	No	No
1135	CHRNA2	cholinergic receptor, nicotinic, alpha 2 (neuronal)	7.11E-07	No	No	Yes	No	No	No	No
9445	ITM2B	integral membrane protein 2B	7.18E-07	Yes	No	Yes	No	No	No	No
4008	LMO7	LIM domain 7	7.18E-07	No	No	No	Yes	No	No	No
4189	DNAJB9	DnaJ (Hsp40) homolog, subfamily B, member 9	7.20E-07	Yes	No	Yes	No	No	No	No
9619	ABCG1	ATP-binding cassette, sub-family G (WHITE), member 1	7.27E-07	Yes	No	Yes	No	No	No	No
4601	MXI1	MAX interactor 1	7.30E-07	Yes	No	No	Yes	No	No	No
3574	IL7	interleukin 7	7.31E-07	No	No	Yes	No	No	Yes	No
9124	PDLIM1	PDZ and LIM domain 1 (elfin)	7.31E-07	Yes	Yes	No	Yes	No	No	No
55832	CAND1	cullin-associated and neddylation-dissociated 1	7.31E-07	No	No	No	Yes	No	No	No
140707	BRI3BP	BRI3 binding protein	7.32E-07	NA	No	No	Yes	No	No	No
55667	DENND4C	DENNMADD domain containing 4C	7.36E-07	Yes	No	Yes	No	No	No	No
2065	ERBB3	v-erb-b2 erythroblastic leukemia viral oncogene homolog 3 (avian)	7.38E-07	Yes	No	No	Yes	No	No	No
169714	QSOX2	quiescin Q6 sulfhydryl oxidase 2	7.39E-07	No	Yes	No	Yes	No	No	No
55664	CDC37L1	cell division cycle 37 homolog (S. cerevisiae)-like 1	7.45E-07	Yes	No	Yes	No	No	No	No
9419	CRIP1	cysteine-rich PDZ-binding protein	7.47E-07	No	No	No	Yes	No	Yes	No
9748	SLK	STE20-like kinase (yeast)	7.47E-07	Yes	No	Yes	No	No	No	No

54504	CPVL	carboxypeptidase, vitellogenic-like	7.50E-07	No	No	No	Yes	No	No	No
56647	BCCIP	BRCA2 and CDKN1A interacting protein	7.52E-07	No	No	No	No	Yes	Yes	No
5187	PER1	period homolog 1 (Drosophila)	7.53E-07	No	No	Yes	No	No	Yes	No
245711	SPDYA	speedy homolog A (Drosophila)	7.53E-07	No	No	No	No	Yes	No	No
1831	TSC22D3	TSC22 domain family, member 3	7.55E-07	Yes	No	Yes	No	No	No	No
3304	HSPA1B	heat shock 70kDa protein 1B	7.56E-07	Yes	No	Yes	No	No	No	No
252969	NEIL2	nei like 2 (E. coli)	7.57E-07	Yes	No	No	Yes	No	Yes	No
114836	SLAMF6	SLAM family member 6	7.59E-07	No	No	No	Yes	No	No	No
39	ACAT2	acetyl-Coenzyme A acetyltransferase 2	7.59E-07	No	No	Yes	No	No	Yes	No
10443	N4BP2L2	NEDD4 binding protein 2-like 2	7.60E-07	Yes	No	No	Yes	No	No	No
7957	EPM2A	epilepsy, progressive myoclonus type 2A, Lafora disease (laforin)	7.62E-07	No	No	Yes	No	No	No	No
4040	LRP6	low density lipoprotein receptor-related protein 6	7.62E-07	Yes	No	Yes	No	No	No	No
85235	HIST1H2AH	histone cluster 1, H2ah	7.62E-07	NA	No	Yes	No	No	Yes	No
554235	LOC554235	hypothetical protein LOC554235	7.62E-07	No	No	No	Yes	No	No	No
51691	LSM8	LSM8 homolog, U6 small nuclear RNA associated (S. cerevisiae)	7.66E-07	No	No	Yes	No	No	Yes	No
84057	MND1	meiotic nuclear divisions 1 homolog (S. cerevisiae)	7.67E-07	No	No	Yes	No	No	No	No
55737	VPS35	vacuolar protein sorting 35 homolog (S. cerevisiae)	7.67E-07	Yes	No	No	Yes	No	Yes	No
3945	LDHB	lactate dehydrogenase B	7.68E-07	No	No	Yes	No	No	No	No
29079	MED4	mediator complex subunit 4	7.69E-07	No	No	Yes	No	No	No	No
55588	MED29	mediator complex subunit 29	7.77E-07	No	No	No	Yes	No	No	No
199857	ALG14	asparagine-linked glycosylation 14 homolog (S. cerevisiae)	7.81E-07	No	No	No	Yes	No	No	No
5931	RBBP7	retinoblastoma binding protein 7	7.81E-07	No	No	No	No	Yes	No	No
201299	RDM1	RAD52 motif 1	7.83E-07	No	No	Yes	No	No	No	No
58476	TP53INP2	tumor protein p53 inducible nuclear protein 2	7.88E-07	No	No	No	Yes	No	No	No
219736	STOX1	storkhead box 1	7.90E-07	No	No	No	Yes	No	No	No
157807	RLBP1L1	retinaldehyde binding protein 1-like 1	7.96E-07	No	No	Yes	No	No	No	No
146183	OTOA	otoancorin	7.97E-07	No	No	Yes	No	No	No	No
84248	FYTTD1	forty-two-three domain containing 1	7.98E-07	No	No	No	No	Yes	No	No
23133	PHF8	PHD finger protein 8	8.02E-07	No	No	Yes	No	No	No	No
51310	SLC22A17	solute carrier family 22, member 17	8.06E-07	No	No	No	No	Yes	No	No
10403	NDC80	NDC80 homolog, kinetochore complex component (S. cerevisiae)	8.07E-07	No	No	No	No	No	Yes	No
84083	ZRANB3	zinc finger, RAN-binding domain containing 3	8.08E-07	No	No	No	Yes	No	No	No
534	ATP6V1G2	ATPase, H+ transporting, lysosomal 13kDa, V1 subunit G2	8.14E-07	No	No	No	Yes	No	No	No
4795	NFKBIL1	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor-like 1	8.14E-07	No	No	No	Yes	No	No	No

51650	MRPS33	mitochondrial ribosomal protein S33	8.14E-07	No	No	No	Yes	No	No	No
64219	PJA1	praja 1	8.15E-07	Yes	No	Yes	No	No	No	No
51289	RXFP3	relaxin/insulin-like family peptide receptor 3	8.15E-07	No	No	Yes	No	No	No	No
55205	ZNF532	zinc finger protein 532	8.15E-07	No	No	No	No	Yes	No	No
55363	HEMGN	hemogen	8.16E-07	No	No	Yes	No	No	No	No
22928	SEPHS2	selenophosphate synthetase 2	8.16E-07	No	No	Yes	No	No	No	No
8479	HIRIP3	HIRA interacting protein 3	8.17E-07	No	No	Yes	No	No	No	No
2802	GOLGA3	golgi autoantigen, golgin subfamily a, 3	8.21E-07	No	No	No	Yes	No	Yes	No
91010	FMNL3	formin-like 3	8.26E-07	Yes	No	Yes	No	No	No	No
51057	LOC51057	hypothetical protein LOC51057	8.27E-07	No	No	No	Yes	No	Yes	No
4190	MDH1	malate dehydrogenase 1, NAD (soluble)	8.27E-07	No	No	No	Yes	No	No	No
51149	LOC51149	hypothetical LOC51149	8.35E-07	Yes	No	Yes	No	No	No	No
64116	SLC39A8	solute carrier family 39 (zinc transporter), member 8	8.41E-07	No	No	Yes	No	No	Yes	No
57336	ZNF287	zinc finger protein 287	8.44E-07	No	No	No	Yes	No	No	No
26512	INTS6	integrator complex subunit 6	8.44E-07	No	No	Yes	No	No	Yes	No
83660	TLN2	taln 2	8.44E-07	No	No	No	Yes	No	No	No
55958	KLHL9	kelch-like 9 (Drosophila)	8.45E-07	Yes	No	Yes	No	No	No	No
6183	MRPS12	mitochondrial ribosomal protein S12	8.53E-07	No	No	No	Yes	No	No	No
23428	SLC7A8	solute carrier family 7 (cationic amino acid transporter, y+ system), member 8	8.60E-07	Yes	No	No	Yes	No	No	No
6194	RPS6	ribosomal protein S6	8.61E-07	No	No	No	Yes	No	No	No
6814	STXBP3	syntaxin binding protein 3	8.61E-07	No	No	Yes	No	No	No	No
7082	TJP1	tight junction protein 1 (zona occludens 1)	8.61E-07	No	No	Yes	No	No	No	No
6535	SLC6A8	solute carrier family 6 (neurotransmitter transporter, creatine), member 8	8.63E-07	No	No	No	No	No	No	No
3321	IGSF3	immunoglobulin superfamily, member 3	8.67E-07	Yes	No	Yes	No	No	No	No
79884	MAP9	microtubule-associated protein 9	8.68E-07	Yes	No	Yes	No	No	No	No
339896	GADL1	glutamate decarboxylase-like 1	8.68E-07	NA	No	Yes	No	No	No	No
4296	MAP3K11	mitogen-activated protein kinase kinase kinase 11	8.69E-07	Yes	No	Yes	No	No	No	No
29843	SENP1	SUMO1/sentrin specific peptidase 1	8.73E-07	No	No	No	Yes	No	Yes	No
5966	REL	v-rel reticuloendotheliosis viral oncogene homolog (avian)	8.74E-07	No	No	Yes	No	No	No	No
54921	CTF8	chromosome transmission fidelity factor 8 homolog (S. cerevisiae)	8.77E-07	No	No	Yes	No	No	Yes	No
57175	CORO1B	coronin, actin binding protein, 1B	8.80E-07	No	No	No	No	No	No	No
57541	ZNF398	zinc finger protein 398	8.83E-07	Yes	No	Yes	No	No	No	No
79661	NEIL1	nei endonuclease VIII-like 1 (E. coli)	8.83E-07	No	Yes	No	Yes	No	Yes	No
64175	LEPRE1	leucine proline-enriched proteoglycan (leprecan) 1	8.86E-07	No	No	No	Yes	No	No	No

150223	YDJC	YdjC homolog (bacterial)	8.88E-07	No	No	No	Yes	No	No	No
23554	TSPAN12	tetraspanin 12	8.88E-07	Yes	No	Yes	No	No	No	No
147184	TMEM99	transmembrane protein 99	8.92E-07	No	No	Yes	No	No	No	No
50514	DEC1	deleted in esophageal cancer 1	8.93E-07	No	No	Yes	No	No	No	No
5188	PET112L	PET112-like (yeast)	8.96E-07	Yes	No	Yes	No	No	No	No
3398	ID2	inhibitor of DNA binding 2, dominant negative helix-loop-helix protein	8.96E-07	No	No	Yes	No	No	Yes	No
3558	IL2	interleukin 2	8.97E-07	No	No	Yes	No	No	No	No
55914	ERBB2IP	erbB2 interacting protein	8.98E-07	No	No	Yes	No	No	Yes	No
115207	KCTD12	potassium channel tetramerisation domain containing 12	9.02E-07	Yes	No	No	No	No	Yes	No
8618	CADPS	Ca ²⁺ -dependent secretion activator	9.10E-07	No	Yes	Yes	No	No	No	No
59342	SCPEP1	serine carboxypeptidase 1	9.16E-07	Yes	No	Yes	No	No	No	No
54329	GPR85	G protein-coupled receptor 85	9.22E-07	Yes	No	Yes	No	No	No	No
1654	DDX3X	DEAD (Asp-Glu-Ala-Asp) box polypeptide 3, X-linked	9.25E-07	Yes	No	Yes	No	No	No	No
10335	MRV1	murine retrovirus integration site 1 homolog	9.34E-07	No	No	Yes	No	No	No	No
9792	SERTAD2	SERTA domain containing 2	9.36E-07	No	No	Yes	No	No	No	No
57504	MTA3	metastasis associated 1 family, member 3	9.50E-07	No	No	No	Yes	No	No	No
10244	RABEPK	Rab9 effector protein with kelch motifs	9.51E-07	Yes	No	No	Yes	No	No	No
10550	ARL6IP5	ADP-ribosylation-like factor 6 interacting protein 5	9.68E-07	Yes	Yes	Yes	No	No	No	No
1108	CHD4	chromodomain helicase DNA binding protein 4	9.70E-07	No	No	No	Yes	No	No	No
55274	PHF10	PHD finger protein 10	9.71E-07	Yes	No	Yes	No	No	No	No
8906	AP1G2	adaptor-related protein complex 1, gamma 2 subunit	9.74E-07	Yes	No	No	Yes	No	No	No
1810	DR1	down-regulator of transcription 1, TBP-binding (negative cofactor 2)	9.76E-07	No	No	Yes	No	No	No	No
3309	HSPA5	heat shock 70kDa protein 5 (glucose-regulated protein, 78kDa)	9.80E-07	No	No	Yes	No	No	No	No
1796	DOK1	docking protein 1, 62kDa (downstream of tyrosine kinase 1)	9.81E-07	Yes	No	No	Yes	No	No	No
84275	SLC25A33	solute carrier family 25, member 33	9.81E-07	No	No	No	Yes	No	No	No
2553	GABPB2	GA binding protein transcription factor, beta subunit 2	9.84E-07	Yes	No	Yes	No	No	Yes	No
9972	NUP153	nucleoporin 153kDa	9.85E-07	No	No	No	Yes	No	No	No
29960	FTSJ2	FtsJ homolog 2 (E. coli)	9.93E-07	No	No	No	No	Yes	No	No
1362	CPD	carboxypeptidase D	9.93E-07	No	Yes	Yes	No	No	No	No
8106	PABPN1	poly(A) binding protein, nuclear 1	1.01E-06	No	No	Yes	No	No	No	No
79788	ZNF665	zinc finger protein 665	1.01E-06	No	No	No	No	No	No	No
11086	ADAM29	ADAM metalloproteinase domain 29	1.02E-06	No	No	No	Yes	No	No	No
27197	GPR82	G protein-coupled receptor 82	1.02E-06	Yes	No	No	Yes	No	No	No
8916	HERC3	hect domain and RLD 3	1.02E-06	No	No	Yes	No	No	Yes	No

5319	PLA2G1B	phospholipase A2, group IB (pancreas)	1.02E-06	No	No	Yes	No	No	No	No
7918	BAT4	HLA-B associated transcript 4	1.02E-06	No	No	Yes	No	No	No	No
83593	RASSF5	Ras association (RalGDS/AF-6) domain family member 5	1.02E-06	Yes	No	No	Yes	No	No	No
130340	AP1S3	adaptor-related protein complex 1, sigma 3 subunit	1.02E-06	No	No	Yes	No	No	Yes	No
2110	ETFDH	electron-transferring-flavoprotein dehydrogenase	1.03E-06	No	No	No	Yes	No	No	No
164	AP1G1	adaptor-related protein complex 1, gamma 1 subunit	1.03E-06	No	No	Yes	No	No	Yes	No
79598	CEP97	centrosomal protein 97kDa	1.04E-06	NA	No	Yes	No	No	No	No
58494	JAM2	junctional adhesion molecule 2	1.04E-06	Yes	No	Yes	No	No	No	No
3665	IRF7	interferon regulatory factor 7	1.04E-06	Yes	No	No	Yes	No	No	No
85442	KNDC1	kinase non-catalytic C-lobe domain (KIND) containing 1	1.04E-06	No	No	No	No	No	No	No
5432	POLR2C	polymerase (RNA) II (DNA directed) polypeptide C, 33kDa	1.04E-06	Yes	No	Yes	No	No	No	No
23063	WAPAL	wings apart-like homolog (Drosophila)	1.05E-06	No	No	No	Yes	No	No	No
155435	RBM33	RNA binding motif protein 33	1.05E-06	No	No	Yes	No	No	No	No
219417	OR8U1	olfactory receptor, family 8, subfamily U, member 1	1.05E-06	NA	No	Yes	No	No	No	No
4919	ROR1	receptor tyrosine kinase-like orphan receptor 1	1.05E-06	Yes	No	Yes	No	No	No	No
2171	FABP5	fatty acid binding protein 5 (psoriasis-associated)	1.06E-06	No	No	Yes	No	No	No	No
201475	RAB12	RAB12, member RAS oncogene family	1.06E-06	Yes	No	Yes	No	No	No	No
28962	OSTM1	osteopetrosis associated transmembrane protein 1	1.06E-06	Yes	No	No	No	Yes	No	No
121227	LRIG3	leucine-rich repeats and immunoglobulin-like domains 3	1.06E-06	No	No	No	No	Yes	No	No
84546	SNORD35B	small nucleolar RNA, C/D box 35B	1.06E-06	NA	No	Yes	No	No	No	No
51203	NUSAP1	nucleolar and spindle associated protein 1	1.07E-06	No	No	Yes	No	No	No	No
9777	TM9SF4	transmembrane 9 superfamily protein member 4	1.07E-06	No	No	Yes	No	No	Yes	No
134359	C5orf37	chromosome 5 open reading frame 37	1.07E-06	No	No	Yes	No	No	Yes	No
441087	LOC441087	hypothetical gene supported by AK125735	1.07E-06	NA	No	Yes	No	No	No	No
5934	RBL2	retinoblastoma-like 2 (p130)	1.07E-06	No	No	No	No	No	No	No
81608	FIP1L1	FIP1 like 1 (S. cerevisiae)	1.08E-06	No	No	Yes	No	No	No	No
9718	ECE2	endothelin converting enzyme 2	1.09E-06	No	No	No	Yes	No	Yes	No
6464	SHC1	SHC (Src homology 2 domain containing) transforming protein 1	1.09E-06	No	No	No	Yes	No	No	No
5160	PDHA1	pyruvate dehydrogenase (lipoamide) alpha 1	1.09E-06	No	No	No	No	Yes	No	No
7343	UBTF	upstream binding transcription factor, RNA polymerase I	1.09E-06	No	No	No	Yes	No	No	No
7920	BAT5	HLA-B associated transcript 5	1.11E-06	No	No	Yes	No	No	Yes	No
113026	PLCD3	phospholipase C, delta 3	1.11E-06	Yes	No	No	Yes	No	No	No
9604	RNF14	ring finger protein 14	1.11E-06	No	No	Yes	No	No	No	No
57659	ZBTB4	zinc finger and BTB domain containing 4	1.12E-06	Yes	No	Yes	No	No	Yes	No

414301	DDI1	DDI1, DNA-damage inducible 1, homolog 1 (S. cerevisiae)	1.12E-06	No	No	Yes	No	No	No	No
29093	MRPL22	mitochondrial ribosomal protein L22	1.12E-06	No	No	No	Yes	No	No	No
7544	ZFY	zinc finger protein, Y-linked	1.12E-06	No	No	No	No	No	No	No
116337	PANX3	pannexin 3	1.12E-06	No	No	No	Yes	No	No	No
5558	PRIM2	primase, DNA, polypeptide 2 (58kDa)	1.13E-06	No	No	Yes	No	No	No	No
53918	PELO	pelota homolog (Drosophila)	1.14E-06	Yes	No	Yes	No	No	No	No
55739	FLJ10769	hypothetical protein FLJ10769	1.15E-06	No	No	No	No	No	No	No
8354	HIST1H3I	histone cluster 1, H3i	1.16E-06	No	No	Yes	No	No	Yes	No
2026	ENO2	enolase 2 (gamma, neuronal)	1.16E-06	No	No	No	No	No	No	No
81839	VANGL1	vang-like 1 (van gogh, Drosophila)	1.16E-06	No	No	No	Yes	No	No	No
10795	ZNF268	zinc finger protein 268	1.16E-06	Yes	No	Yes	No	No	No	No
5229	PGGT1B	protein geranylgeranyltransferase type I, beta subunit	1.17E-06	No	No	Yes	No	No	No	No
1616	DAXX	death-associated protein 6	1.19E-06	No	No	Yes	No	No	Yes	No
5151	PDE8A	phosphodiesterase 8A	1.19E-06	Yes	No	No	No	No	No	No
1022	CDK7	cyclin-dependent kinase 7	1.20E-06	No	No	Yes	No	No	No	No
1124	CHN2	chimerin (chimaerin) 2	1.20E-06	No	No	No	Yes	No	No	No
51319	RSRC1	arginine/serine-rich coiled-coil 1	1.20E-06	No	No	No	Yes	No	No	No
2783	GNB2	guanine nucleotide binding protein (G protein), beta polypeptide 2	1.20E-06	No	No	No	Yes	No	No	No
6373	CXCL11	chemokine (C-X-C motif) ligand 11	1.21E-06	Yes	No	Yes	No	No	No	No
161436	EML5	echinoderm microtubule associated protein like 5	1.22E-06	No	No	No	Yes	No	No	No
113451	ADC	arginine decarboxylase	1.22E-06	No	No	No	Yes	No	No	No
5790	PTPRCAP	protein tyrosine phosphatase, receptor type, C-associated protein	1.22E-06	No	No	Yes	No	No	No	No
7494	XBP1	X-box binding protein 1	1.22E-06	No	No	Yes	No	No	Yes	No
790	CAD	carbamoyl-phosphate synthetase 2, aspartate transcarbamylase, and dihydroorotase	1.22E-06	No	No	Yes	No	No	No	No
10153	CEBPZ	CCAAT/enhancer binding protein zeta	1.22E-06	No	No	Yes	No	No	No	No
27133	KCNH5	potassium voltage-gated channel, subfamily H (eag-related), member 5	1.22E-06	No	No	Yes	No	No	No	No
220988	HNRNPA3	heterogeneous nuclear ribonucleoprotein A3	1.23E-06	No	No	Yes	No	No	No	No
54545	MTMR12	myotubularin related protein 12	1.23E-06	No	No	Yes	No	No	No	No
3064	HTT	huntingtin	1.25E-06	No	No	No	Yes	No	No	No
27299	ADAMDEC1	ADAM-like, decysin 1	1.25E-06	No	No	No	Yes	No	No	No
56987	BBX	bobby sox homolog (Drosophila)	1.25E-06	Yes	No	Yes	No	No	No	No
54541	DDIT4	DNA-damage-inducible transcript 4	1.25E-06	Yes	No	No	No	No	No	No
8356	HIST1H3J	histone cluster 1, H3j	1.25E-06	NA	No	Yes	No	No	No	No
10577	NPC2	Niemann-Pick disease, type C2	1.25E-06	Yes	No	Yes	No	No	No	No

5786	PTPRA	protein tyrosine phosphatase, receptor type, A	1.25E-06	No	No	Yes	No	No	No	No
113251	LARP4	La ribonucleoprotein domain family, member 4	1.26E-06	No	No	No	Yes	No	No	No
3005	H1F0	H1 histone family, member 0	1.27E-06	No	No	No	No	Yes	No	No
340596	LHFPL1	lipoma HMGIC fusion partner-like 1	1.27E-06	No	No	Yes	No	No	No	No
22800	RRAS2	related RAS viral (r-ras) oncogene homolog 2	1.29E-06	No	Yes	Yes	No	No	No	No
83719	YPFL3	yippee-like 3 (Drosophila)	1.31E-06	Yes	No	Yes	No	No	No	No
83874	TBC1D10A	TBC1 domain family, member 10A	1.31E-06	Yes	No	No	No	No	No	No
10559	SLC35A1	solute carrier family 35 (CMP-sialic acid transporter), member A1	1.32E-06	No	No	Yes	No	No	No	No
55296	TBC1D19	TBC1 domain family, member 19	1.32E-06	No	No	No	Yes	No	No	No
64801	ARV1	ARV1 homolog (S. cerevisiae)	1.32E-06	No	No	No	No	No	Yes	No
9679	FAM53B	family with sequence similarity 53, member B	1.32E-06	No	No	No	Yes	No	No	No
10163	WASF2	WAS protein family, member 2	1.33E-06	Yes	No	No	Yes	No	No	No
5888	RAD51	RAD51 homolog (RecA homolog, E. coli) (S. cerevisiae)	1.33E-06	No	No	Yes	No	No	Yes	No
4507	MTAP	methylthioadenosine phosphorylase	1.34E-06	No	No	Yes	No	No	No	No
51138	COP54	COP9 constitutive photomorphogenic homolog subunit 4 (Arabidopsis)	1.35E-06	No	No	No	Yes	No	No	No
5922	RASA2	RAS p21 protein activator 2	1.36E-06	Yes	No	Yes	No	No	Yes	Yes
84727	SPSB2	sp/A/ryanodine receptor domain and SOCS box containing 2	1.36E-06	No	No	No	No	Yes	No	No
56852	RAD18	RAD18 homolog (S. cerevisiae)	1.36E-06	No	No	Yes	No	No	No	No
677834	SNORA55	small nucleolar RNA, H/ACA box 55	1.36E-06	NA	No	Yes	No	No	No	No
9601	PDI4	protein disulfide isomerase family A, member 4	1.36E-06	No	No	Yes	No	No	Yes	No
3727	JUND	jun D proto-oncogene	1.36E-06	Yes	No	Yes	No	No	No	No
23200	ATP11B	ATPase, class VI, type 11B	1.39E-06	No	No	Yes	No	No	No	No
119391	GSTO2	glutathione S-transferase omega 2	1.40E-06	No	No	Yes	No	No	No	No
1945	EFNA4	ephrin-A4	1.40E-06	No	No	Yes	No	No	No	No
10367	CBARA1	calcium binding atopy-related autoantigen 1	1.40E-06	No	No	Yes	No	No	No	No
283991	FAM100B	family with sequence similarity 100, member B	1.41E-06	No	No	Yes	No	No	No	No
6314	ATXN7	ataxin 7	1.42E-06	No	No	Yes	No	No	No	No
55081	IFT57	intraflagellar transport 57 homolog (Chlamydomonas)	1.42E-06	Yes	Yes	Yes	No	No	No	No
10714	POLD3	polymerase (DNA-directed), delta 3, accessory subunit	1.42E-06	No	No	No	Yes	No	No	No
262	AMD1	adenosylmethionine decarboxylase 1	1.43E-06	Yes	No	Yes	No	No	Yes	No
55156	ARMC1	armadillo repeat containing 1	1.43E-06	No	No	Yes	No	No	No	No
81848	SPRY4	sprouty homolog 4 (Drosophila)	1.43E-06	Yes	No	Yes	No	No	No	No
152206	CCDC13	coiled-coil domain containing 13	1.44E-06	Yes	No	Yes	No	No	No	No
55536	CDC47L	cell division cycle associated 7-like	1.44E-06	Yes	No	Yes	No	No	No	No

7336	UBE2V2	ubiquitin-conjugating enzyme E2 variant 2	1.45E-06	No	No	Yes	No	No	No	No
5597	MAPK6	mitogen-activated protein kinase 6	1.46E-06	No	No	Yes	No	No	No	No
57018	CCNL1	cyclin L1	1.47E-06	No	No	No	Yes	No	Yes	No
118	ADD1	adducin 1 (alpha)	1.47E-06	Yes	No	Yes	No	No	No	No
7317	UBA1	ubiquitin-like modifier activating enzyme 1	1.47E-06	No	No	Yes	No	No	No	No
2908	NR3C1	nuclear receptor subfamily 3, group C, member 1 (glucocorticoid receptor)	1.47E-06	No	No	Yes	No	No	No	No
441931	LOC441931	putative G-protein coupled receptor	1.47E-06	NA	No	Yes	No	No	No	No
5167	ENPP1	ectonucleotide pyrophosphatase/phosphodiesterase 1	1.48E-06	No	No	Yes	No	No	No	No
7347	UCHL3	ubiquitin carboxyl-terminal esterase L3 (ubiquitin thiolesterase)	1.48E-06	No	No	Yes	No	No	No	No
5896	RAG1	recombination activating gene 1	1.48E-06	No	No	No	Yes	No	No	No
83999	KREMEN1	kringle containing transmembrane protein 1	1.48E-06	Yes	No	No	No	No	No	No
23064	SETX	senataxin	1.48E-06	Yes	No	Yes	No	No	No	No
9987	HNRPDL	heterogeneous nuclear ribonucleoprotein D-like	1.49E-06	Yes	No	No	Yes	No	Yes	Yes
55823	VPS11	vacuolar protein sorting 11 homolog (S. cerevisiae)	1.49E-06	No	No	No	Yes	No	Yes	No
5090	PBX3	pre-B-cell leukemia homeobox 3	1.49E-06	No	No	No	No	No	No	No
8013	NR4A3	nuclear receptor subfamily 4, group A, member 3	1.49E-06	Yes	No	Yes	No	No	Yes	No
5713	PSMD7	proteasome (prosome, macropain) 26S subunit, non-ATPase, 7	1.50E-06	No	No	Yes	No	No	No	No
51585	PCF11	PCF11, cleavage and polyadenylation factor subunit, homolog (S. cerevisiae)	1.50E-06	No	No	Yes	No	No	No	No
339976	TRIML1	tripartite motif family-like 1	1.50E-06	No	No	Yes	No	No	No	No
94005	PIGS	phosphatidylinositol glycan anchor biosynthesis, class S	1.50E-06	No	No	No	No	Yes	No	No
10725	NFAT5	nuclear factor of activated T-cells 5, tonicity-responsive	1.52E-06	No	No	Yes	No	No	No	No
1717	DHCR7	7-dehydrocholesterol reductase	1.52E-06	Yes	No	Yes	No	No	No	No
55191	NADSYN1	NAD synthetase 1	1.52E-06	No	No	Yes	No	No	No	No
51778	MYOZ2	myozenin 2	1.52E-06	No	No	Yes	No	No	No	No
23529	CLCF1	cardiotrophin-like cytokine factor 1	1.53E-06	Yes	No	No	No	Yes	No	No
10882	C1QL1	complement component 1, q subcomponent-like 1	1.53E-06	No	No	No	Yes	No	No	No
597	BCL2A1	BCL2-related protein A1	1.54E-06	No	No	Yes	No	No	Yes	No
91694	LONRF1	LON peptidase N-terminal domain and ring finger 1	1.55E-06	No	Yes	Yes	No	No	No	No
84624	FNDC1	fibronectin type III domain containing 1	1.56E-06	No	No	Yes	No	No	No	No
60528	ELAC2	elaC homolog 2 (E. coli)	1.56E-06	No	No	No	No	No	No	No
6050	RNH1	ribonuclease/angiogenin inhibitor 1	1.56E-06	Yes	No	No	No	Yes	No	No
2965	GTF2H1	general transcription factor IIH, polypeptide 1, 62kDa	1.56E-06	No	No	No	Yes	No	No	No
11234	HPS5	Hermansky-Pudlak syndrome 5	1.56E-06	No	No	No	Yes	No	No	No
254879	OR2T6	olfactory receptor, family 2, subfamily T, member 6	1.56E-06	NA	No	Yes	No	No	No	No

51002	TPRKB	TP53RK binding protein	1.56E-06	No	No	No	Yes	No	No	No
199704	ZNF585A	zinc finger protein 585A	1.57E-06	No	No	No	No	No	Yes	No
80818	ZNF436	zinc finger protein 436	1.59E-06	No	No	No	Yes	No	No	No
11164	NUDT5	nudix (nucleoside diphosphate linked moiety X)-type motif 5	1.59E-06	No	No	Yes	No	No	Yes	No
2974	GUCY1B2	guanylate cyclase 1, soluble, beta 2	1.60E-06	No	No	Yes	No	No	No	No
23194	FBXL7	F-box and leucine-rich repeat protein 7	1.60E-06	No	Yes	Yes	No	No	No	No
51554	CCRL1	chemokine (C-C motif) receptor-like 1	1.60E-06	No	No	Yes	No	No	No	No
57407	NMRAL1	NmrA-like family domain containing 1	1.60E-06	No	No	Yes	No	No	No	No
3163	HMOX2	heme oxygenase (decycling) 2	1.60E-06	No	No	Yes	No	No	No	No
10953	TOMM34	translocase of outer mitochondrial membrane 34	1.60E-06	No	No	Yes	No	No	No	No
4012	LNPEP	leucyl/cystinyl aminopeptidase	1.60E-06	No	No	Yes	No	No	No	No
3033	HADH	hydroxyacyl-Coenzyme A dehydrogenase	1.60E-06	No	No	Yes	No	No	No	No
10982	MAPRE2	microtubule-associated protein, RP/EB family, member 2	1.61E-06	Yes	No	Yes	No	No	No	No
23643	LY96	lymphocyte antigen 96	1.61E-06	Yes	No	Yes	No	No	Yes	No
4435	CITED1	Cbp/p300-interacting transactivator, with Glu/Asp-rich carboxy-terminal domain, 1	1.62E-06	Yes	No	No	Yes	No	No	No
51116	MRPS2	mitochondrial ribosomal protein S2	1.63E-06	No	No	Yes	No	No	No	No
8125	ANP32A	acidic (leucine-rich) nuclear phosphoprotein 32 family, member A	1.63E-06	No	Yes	Yes	No	No	No	No
84287	ZDHC16	zinc finger, DHHC-type containing 16	1.63E-06	No	No	No	Yes	No	No	No
51013	EXOSC1	exosome component 1	1.63E-06	No	No	No	Yes	No	No	No
51399	TRAPPC4	trafficking protein particle complex 4	1.63E-06	No	No	Yes	No	No	No	No
170690	ADAMTS16	ADAM metalloproteinase with thrombospondin type 1 motif, 16	1.64E-06	Yes	No	Yes	No	No	No	No
23588	KLHDC2	kelch domain containing 2	1.65E-06	No	No	Yes	No	No	No	No
6625	SNRP70	small nuclear ribonucleoprotein 70kDa polypeptide (RNP antigen)	1.65E-06	Yes	No	No	No	No	No	No
25939	SAMHD1	SAM domain and HD domain 1	1.66E-06	No	No	No	No	Yes	No	No
1948	EFNB2	ephrin-B2	1.66E-06	No	No	Yes	No	No	No	No
10347	ABCA7	ATP-binding cassette, sub-family A (ABC1), member 7	1.66E-06	No	No	No	Yes	No	No	No
57172	CAMK1G	calcium/calmodulin-dependent protein kinase IG	1.66E-06	Yes	No	Yes	No	No	No	No
2919	CXCL1	chemokine (C-X-C motif) ligand 1 (melanoma growth stimulating activity, alpha)	1.66E-06	Yes	No	Yes	No	No	No	No
5602	MAPK10	mitogen-activated protein kinase 10	1.67E-06	No	Yes	Yes	No	No	Yes	No
84331	C16orf14	chromosome 16 open reading frame 14	1.67E-06	No	No	No	No	No	No	No
203328	SUSD3	sushi domain containing 3	1.68E-06	No	No	Yes	No	No	No	No
8625	RFXANK	regulatory factor X-associated ankyrin-containing protein	1.68E-06	No	No	No	Yes	No	No	No
10721	POLQ	polymerase (DNA directed), theta	1.69E-06	No	No	Yes	No	No	Yes	No
8743	TNFSF10	tumor necrosis factor (ligand) superfamily, member 10	1.69E-06	Yes	No	No	Yes	No	No	No

2987	GUK1	guanylate kinase 1	1.69E-06	No	No	No	Yes	No	No	No
1265	CNN2	calponin 2	1.70E-06	No	No	Yes	No	No	No	No
10542	HBXIP	hepatitis B virus x interacting protein	1.70E-06	No	No	Yes	No	No	Yes	No
11320	MGAT4A	mannosyl (alpha-1,3)-glycoprotein beta-1,4-N-acetylglucosaminyltransferase, isozyme A	1.70E-06	Yes	No	No	Yes	No	No	No
50937	CDON	Cdon homolog (mouse)	1.70E-06	No	No	Yes	No	No	No	No
84217	ZMYND12	zinc finger, MYND-type containing 12	1.71E-06	No	No	No	No	Yes	Yes	No
25949	SYF2	SYF2 homolog, RNA splicing factor (S. cerevisiae)	1.71E-06	No	No	Yes	No	No	Yes	No
140545	RNF32	ring finger protein 32	1.71E-06	Yes	No	Yes	No	No	No	No
79872	CBLL1	Cas-Br-M (murine) ecotropic retroviral transforming sequence-like 1	1.71E-06	No	No	Yes	No	No	Yes	No
56606	SLC2A9	solute carrier family 2 (facilitated glucose transporter), member 9	1.71E-06	No	No	No	No	No	No	No
256051	ZNF549	zinc finger protein 549	1.71E-06	Yes	No	No	Yes	No	No	No
5936	RBM4	RNA binding motif protein 4	1.72E-06	No	No	Yes	No	No	No	No
9524	GPSN2	glycoprotein, synaptic 2	1.73E-06	No	No	No	No	Yes	No	No
8738	CRADD	CASP2 and RIPK1 domain containing adaptor with death domain	1.74E-06	No	No	No	Yes	No	No	No
22905	EPN2	epsin 2	1.74E-06	No	No	Yes	No	No	Yes	No
8971	H1FX	H1 histone family, member X	1.74E-06	No	No	Yes	No	No	No	No
8624	PSMG1	proteasome (prosome, macropain) assembly chaperone 1	1.74E-06	No	No	Yes	No	No	No	No
6723	SRM	spermidine synthase	1.75E-06	No	No	Yes	No	No	No	No
10733	PLK4	polo-like kinase 4 (Drosophila)	1.75E-06	No	No	Yes	No	No	No	No
51105	PHF20L1	PHD finger protein 20-like 1	1.75E-06	No	No	Yes	No	No	No	No
57157	PHTF2	putative homeodomain transcription factor 2	1.77E-06	No	No	Yes	No	No	No	No
4791	NFKB2	nuclear factor of kappa light polypeptide gene enhancer in B-cells 2 (p49/p100)	1.78E-06	Yes	No	No	Yes	No	No	No
2785	GNG3	guanine nucleotide binding protein (G protein), gamma 3	1.79E-06	No	No	Yes	No	No	Yes	No
1979	EIF4EBP2	eukaryotic translation initiation factor 4E binding protein 2	1.79E-06	No	No	Yes	No	No	Yes	No
11315	PARK7	Parkinson disease (autosomal recessive, early onset) 7	1.79E-06	No	No	Yes	No	No	No	No
2958	GTF2A2	general transcription factor IIA, 2, 12kDa	1.80E-06	No	No	Yes	No	No	No	No
54516	MTRF1L	mitochondrial translational release factor 1-like	1.80E-06	No	No	Yes	No	No	No	No
80095	ZNF606	zinc finger protein 606	1.81E-06	Yes	No	Yes	No	No	No	No
122809	SOCS4	suppressor of cytokine signaling 4	1.81E-06	No	No	No	Yes	No	No	No
157506	RDH10	retinol dehydrogenase 10 (all-trans)	1.81E-06	No	No	No	No	Yes	No	No
51805	COQ3	coenzyme Q3 homolog, methyltransferase (S. cerevisiae)	1.81E-06	No	No	Yes	No	No	No	No
29068	ZBTB44	zinc finger and BTB domain containing 44	1.83E-06	No	No	No	No	No	No	No
8443	GNPAT	glyceronephosphate O-acyltransferase	1.83E-06	No	No	Yes	No	No	No	No
5732	PTGER2	prostaglandin E receptor 2 (subtype EP2), 53kDa	1.83E-06	Yes	No	No	Yes	No	No	No

26088	GGA1	golgi associated, gamma adaptin ear containing, ARF binding protein 1	1.83E-06	No	Yes	No	No	No	No	No
79626	TNFAIP8L2	tumor necrosis factor, alpha-induced protein 8-like 2	1.84E-06	Yes	Yes	No	Yes	No	No	No
1977	EIF4E	eukaryotic translation initiation factor 4E	1.84E-06	No	No	No	Yes	No	Yes	No
150368	FAM109B	family with sequence similarity 109, member B	1.84E-06	Yes	No	Yes	No	No	No	No
11000	SLC27A3	solute carrier family 27 (fatty acid transporter), member 3	1.86E-06	Yes	No	No	No	No	No	No
6324	SCN1B	sodium channel, voltage-gated, type I, beta	1.87E-06	No	No	No	No	No	No	No
9847	KIAA0528	KIAA0528	1.88E-06	No	No	Yes	No	No	No	No
4174	MCM5	minichromosome maintenance complex component 5	1.88E-06	No	No	Yes	No	No	No	No
8935	SKAP2	src kinase associated phosphoprotein 2	1.89E-06	No	No	Yes	No	No	No	No
28973	MRPS18B	mitochondrial ribosomal protein S18B	1.89E-06	No	Yes	Yes	No	No	Yes	Yes
81846	SBF2	SET binding factor 2	1.89E-06	Yes	No	No	Yes	No	No	No
133	ADM	adrenomedullin	1.89E-06	No	No	No	Yes	No	No	No
79948	PRG2	plasticity-related gene 2	1.89E-06	No	No	No	Yes	No	No	No
51147	ING4	inhibitor of growth family, member 4	1.89E-06	No	No	Yes	No	No	No	No
5747	PTK2	PTK2 protein tyrosine kinase 2	1.90E-06	No	Yes	No	Yes	No	No	No
6726	SRP9	signal recognition particle 9kDa	1.91E-06	No	No	Yes	No	No	No	No
1819	DRG2	developmentally regulated GTP binding protein 2	1.92E-06	No	No	No	Yes	No	No	No
1203	CLN5	ceroid-lipofuscinosis, neuronal 5	1.92E-06	Yes	No	No	Yes	No	No	No
91782	CHMP7	CHMP family, member 7	1.92E-06	No	No	No	Yes	No	No	No
259266	ASPM	asp (abnormal spindle) homolog, microcephaly associated (Drosophila)	1.93E-06	No	No	Yes	No	No	No	No
57001	ACN9	ACN9 homolog (S. cerevisiae)	1.94E-06	No	No	Yes	No	No	No	No
8560	DEGS1	degenerative spermatocyte homolog 1, lipid desaturase (Drosophila)	1.94E-06	No	No	Yes	No	No	No	No
8339	HIST1H2BG	histone cluster 1, H2bg	1.97E-06	Yes	No	Yes	No	No	Yes	No
84790	TUBA1C	tubulin, alpha 1c	1.97E-06	No	No	Yes	No	No	No	No
391112	OR6Y1	olfactory receptor, family 6, subfamily Y, member 1	1.98E-06	NA	No	Yes	No	No	No	No
114609	TIRAP	toll-interleukin 1 receptor (TIR) domain containing adaptor protein	1.98E-06	Yes	No	No	No	Yes	No	No
29969	MDFIC	MyoD family inhibitor domain containing	1.98E-06	No	No	Yes	No	No	No	No
10800	CYSLTR1	cysteinyl leukotriene receptor 1	1.99E-06	Yes	Yes	Yes	No	No	No	No
6631	SNRPC	small nuclear ribonucleoprotein polypeptide C	1.99E-06	No	No	Yes	No	No	Yes	No
164668	APOBEC3H	apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3H	1.99E-06	NA	No	No	Yes	No	No	No
11040	PIM2	pim-2 oncogene	1.99E-06	No	No	Yes	No	No	Yes	No
26502	NARF	nuclear prelamin A recognition factor	1.99E-06	No	No	No	Yes	No	No	No
8772	FADD	Fas (TNFRSF6)-associated via death domain	2.00E-06	No	No	No	Yes	No	No	No
10486	CAP2	CAP, adenylate cyclase-associated protein, 2 (yeast)	2.00E-06	No	No	No	Yes	No	No	No

57337	SENP7	SUMO1/sentrin specific peptidase 7	2.00E-06	No	No	Yes	No	No	No	No
5368	PNOC	prepronociceptin	2.00E-06	No	No	Yes	No	No	No	No
55527	FEM1A	fem-1 homolog a (C. elegans)	2.01E-06	No	No	Yes	No	No	No	No
57693	ZNF317	zinc finger protein 317	2.02E-06	Yes	No	Yes	No	No	Yes	No
80059	LRRTM4	leucine rich repeat transmembrane neuronal 4	2.02E-06	No	No	Yes	No	No	No	No
922	CDSL	CD5 molecule-like	2.02E-06	No	No	Yes	No	No	No	No
8832	CD84	CD84 molecule	2.04E-06	Yes	No	Yes	No	No	No	No
83743	GRWD1	glutamate-rich WD repeat containing 1	2.04E-06	No	No	Yes	No	No	No	No
5884	RAD17	RAD17 homolog (S. pombe)	2.05E-06	No	Yes	Yes	No	No	No	No
79811	SLTM	SAFB-like, transcription modulator	2.05E-06	No	No	Yes	No	No	No	No
5330	PLCB2	phospholipase C, beta 2	2.06E-06	Yes	No	No	Yes	No	No	No
55705	IPO9	importin 9	2.06E-06	No	No	Yes	No	No	No	No
4321	MMP12	matrix metallopeptidase 12 (macrophage elastase)	2.07E-06	No	No	Yes	No	No	No	No
4084	MXD1	MAX dimerization protein 1	2.08E-06	Yes	No	Yes	No	No	No	No
481	ATP1B1	ATPase, Na+/K+ transporting, beta 1 polypeptide	2.10E-06	No	No	Yes	No	No	Yes	No
23531	MMD	monocyte to macrophage differentiation-associated	2.10E-06	No	No	Yes	No	No	No	No
78994	PRR14	proline rich 14	2.10E-06	Yes	No	Yes	No	No	No	No
7411	VBP1	von Hippel-Lindau binding protein 1	2.10E-06	Yes	No	No	Yes	No	No	No
1785	DNM2	dynamitin 2	2.10E-06	Yes	No	No	Yes	No	No	No
55432	YOD1	YOD1 OTU deubiquinating enzyme 1 homolog (S. cerevisiae)	2.11E-06	No	Yes	Yes	No	No	No	No
4774	NFIA	nuclear factor I/A	2.11E-06	No	No	Yes	No	No	Yes	No
4048	LTA4H	leukotriene A4 hydrolase	2.12E-06	No	No	Yes	No	No	Yes	Yes
4017	LOXL2	lysyl oxidase-like 2	2.12E-06	No	Yes	Yes	No	No	No	No
7564	ZNF16	zinc finger protein 16	2.12E-06	No	No	Yes	No	No	No	No
3215	HOXB5	homeobox B5	2.13E-06	No	No	Yes	No	No	No	No
1844	DUSP2	dual specificity phosphatase 2	2.13E-06	No	No	No	Yes	No	Yes	No
6095	RORA	RAR-related orphan receptor A	2.13E-06	Yes	No	Yes	No	No	No	No
57534	MIB1	mindbomb homolog 1 (Drosophila)	2.16E-06	No	No	Yes	No	No	No	No
84614	ZBTB37	zinc finger and BTB domain containing 37	2.16E-06	No	No	Yes	No	No	Yes	No
55270	NUDT15	nudix (nucleoside diphosphate linked moiety X)-type motif 15	2.16E-06	No	No	Yes	No	No	No	No
57679	ALS2	amyotrophic lateral sclerosis 2 (juvenile)	2.16E-06	Yes	No	Yes	No	No	No	No
3608	ILF2	interleukin enhancer binding factor 2, 45kDa	2.17E-06	No	No	Yes	No	No	Yes	No
10346	TRIM22	tripartite motif-containing 22	2.18E-06	Yes	No	No	Yes	No	No	No
3014	H2AFX	H2A histone family, member X	2.18E-06	No	No	Yes	No	No	No	No

84376	HOOK3	hook homolog 3 (Drosophila)	2.18E-06	Yes	No	Yes	No	No	No	No
9784	SNX17	sorting nexin 17	2.18E-06	No	No	No	Yes	No	No	No
5469	MED1	mediator complex subunit 1	2.19E-06	No	No	Yes	No	No	No	No
55862	ECHDC1	enoyl Coenzym A hydratase domain containing 1	2.19E-06	Yes	No	Yes	No	No	Yes	No
84343	HPS3	Hermansky-Pudlak syndrome 3	2.19E-06	No	No	Yes	No	No	No	No
4286	MITF	microphthalmia-associated transcription factor	2.19E-06	No	No	Yes	No	No	No	No
4633	MYL2	myosin, light chain 2, regulatory, cardiac, slow	2.19E-06	No	No	Yes	No	No	No	No
10495	ENOX2	ecto-NOX disulfide-thiol exchanger 2	2.20E-06	No	No	Yes	No	No	No	No
55266	TMEM19	transmembrane protein 19	2.23E-06	No	No	Yes	No	No	No	No
50515	CHST11	carbohydrate (chondroitin 4) sulfotransferase 11	2.24E-06	Yes	No	Yes	No	No	No	No
5062	PAK2	p21 protein (Cdc42/Rac)-activated kinase 2	2.24E-06	No	No	Yes	No	No	No	No
51725	FBXO40	F-box protein 40	2.25E-06	No	No	No	Yes	No	No	No
23708	GSPT2	G1 to S phase transition 2	2.25E-06	No	No	Yes	No	No	No	No
64599	GIGYF1	GRB10 interacting GYF protein 1	2.27E-06	Yes	No	Yes	No	No	No	No
91392	ZNF502	zinc finger protein 502	2.28E-06	Yes	No	Yes	No	No	No	No
10228	STX6	syntaxin 6	2.28E-06	Yes	Yes	Yes	No	No	No	No
79977	GRHL2	grainyhead-like 2 (Drosophila)	2.29E-06	No	No	Yes	No	No	No	No
5500	PPP1CB	protein phosphatase 1, catalytic subunit, beta isoform	2.29E-06	No	No	Yes	No	No	No	No
313	AOAH	acyloxycacyl hydrolase (neutrophil)	2.31E-06	No	No	Yes	No	No	No	No
57538	ALPK3	alpha-kinase 3	2.31E-06	No	No	No	Yes	No	No	No
2629	GBA	glucosidase, beta; acid (includes glucosylceramidase)	2.32E-06	No	No	No	Yes	No	No	No
27068	PPA2	pyrophosphatase (inorganic) 2	2.32E-06	No	No	Yes	No	No	No	No
6241	RRM2	ribonucleotide reductase M2 polypeptide	2.33E-06	No	No	Yes	No	No	No	No
1114	CHGB	chromogranin B (secretogranin 1)	2.33E-06	No	No	Yes	No	No	No	No
375287	RBM43	RNA binding motif protein 43	2.33E-06	Yes	No	No	Yes	No	No	No
3290	HSD11B1	hydroxysteroid (11-beta) dehydrogenase 1	2.34E-06	No	No	Yes	No	No	No	No
79544	OR4K1	olfactory receptor, family 4, subfamily K, member 1	2.35E-06	NA	No	Yes	No	No	No	No
1603	DAD1	defender against cell death 1	2.36E-06	No	No	Yes	No	No	No	No
4211	MEIS1	Meis homeobox 1	2.37E-06	Yes	No	No	Yes	No	Yes	No
9266	PSCD2	pleckstrin homology, Sec7 and coiled-coil domains 2 (cytohesin-2)	2.37E-06	No	No	No	Yes	No	No	No
22872	SEC31A	SEC31 homolog A (S. cerevisiae)	2.37E-06	No	Yes	Yes	No	No	Yes	Yes
79725	THAP9	THAP domain containing 9	2.37E-06	No	No	No	Yes	No	Yes	No
9172	MYO2	myomesin (M-protein) 2, 165kDa	2.37E-06	No	No	No	Yes	No	No	No
23235	SNF1LK2	SNF1-like kinase 2	2.37E-06	Yes	No	No	No	No	No	No

11313	LYPLA2	lysophospholipase II	2.38E-06	No	No	Yes	No	No	No	No
10154	PLXNC1	plexin C1	2.39E-06	Yes	No	Yes	No	No	No	No
23082	PPRC1	peroxisome proliferator-activated receptor gamma, coactivator-related 1	2.39E-06	Yes	No	Yes	No	No	No	No
9061	PAPSS1	3-phosphoadenosine 5'-phosphosulfate synthase 1	2.41E-06	No	No	Yes	No	No	No	No
1594	CYP27B1	cytochrome P450, family 27, subfamily B, polypeptide 1	2.42E-06	No	No	No	Yes	No	No	No
23126	POGZ	pogo transposable element with ZNF domain	2.43E-06	No	No	No	Yes	No	No	No
22862	FNDC3A	fibronectin type III domain containing 3A	2.43E-06	Yes	Yes	Yes	No	No	Yes	Yes
3570	IL6R	interleukin 6 receptor	2.44E-06	Yes	No	No	Yes	No	No	No
121260	SLC15A4	solute carrier family 15, member 4	2.44E-06	No	No	No	Yes	No	No	No
26258	PLDN	pallidin homolog (mouse)	2.46E-06	No	No	Yes	No	No	No	No
1191	CLU	clusterin	2.47E-06	No	No	Yes	No	No	No	No
23607	CD2AP	CD2-associated protein	2.47E-06	No	No	Yes	No	No	No	No
54857	GDPD2	glycerophosphodiester phosphodiesterase domain containing 2	2.47E-06	No	No	No	Yes	No	No	No
26750	RPS6KC1	ribosomal protein S6 kinase, 52kDa, polypeptide 1	2.47E-06	No	No	Yes	No	No	No	No
51023	MRPS18C	mitochondrial ribosomal protein S18C	2.48E-06	No	No	Yes	No	No	Yes	No
4706	NDUFAB1	NADH dehydrogenase (ubiquinone) 1, alpha/beta subcomplex, 1, 8kDa	2.48E-06	No	No	Yes	No	No	No	No
5169	ENPP3	ectonucleotide pyrophosphatase/phosphodiesterase 3	2.48E-06	No	No	Yes	No	No	No	No
5527	PPP2R5C	protein phosphatase 2, regulatory subunit B, gamma isoform	2.48E-06	No	No	Yes	No	No	No	No
5718	PSMD12	proteasome (prosome, macropain) 26S subunit, non-ATPase, 12	2.49E-06	No	No	Yes	No	No	Yes	No
9590	AKAP12	A kinase (PRKA) anchor protein (gravin) 12	2.49E-06	No	No	Yes	No	No	No	No
8178	ELL	elongation factor RNA polymerase II	2.50E-06	Yes	No	No	Yes	No	No	No
55026	FAM70A	family with sequence similarity 70, member A	2.50E-06	No	No	Yes	No	No	No	No
2253	FGF8	fibroblast growth factor 8 (androgen-induced)	2.51E-06	No	No	No	No	No	No	No
64005	MYO1G	myosin IG	2.51E-06	Yes	No	Yes	No	No	Yes	No
338382	RAB7B	RAB7B, member RAS oncogene family	2.51E-06	Yes	No	Yes	No	No	No	No
56942	C16orf61	chromosome 16 open reading frame 61	2.52E-06	No	No	No	Yes	No	Yes	No
10950	BTG3	BTG family, member 3	2.53E-06	No	No	Yes	No	No	No	No
10611	PDLIM5	PDZ and LIM domain 5	2.53E-06	Yes	No	Yes	No	No	No	No
79602	ADIPOR2	adiponectin receptor 2	2.54E-06	No	No	Yes	No	No	No	No
92105	INTS4	integrator complex subunit 4	2.55E-06	No	No	Yes	No	No	No	No
51663	ZFR	zinc finger RNA binding protein	2.55E-06	Yes	No	No	Yes	No	No	No
55120	FANCL	Fanconi anemia, complementation group L	2.56E-06	No	No	No	Yes	No	No	No
148867	SLC30A7	solute carrier family 30 (zinc transporter), member 7	2.57E-06	Yes	No	No	Yes	No	Yes	No
26054	SENP6	SUMO1/sentrin specific peptidase 6	2.58E-06	Yes	No	Yes	No	No	No	No

7534	YWHAZ	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, zeta polypeptide	2.59E-06	No	No	No	No	No	No	No
406	ARNTL	aryl hydrocarbon receptor nuclear translocator-like	2.59E-06	Yes	No	Yes	No	No	No	No
3417	IDH1	isocitrate dehydrogenase 1 (NADP+), soluble	2.59E-06	Yes	No	Yes	No	No	No	No
221895	JAZF1	JAZF zinc finger 1	2.60E-06	Yes	Yes	Yes	No	No	Yes	No
80201	HKDC1	hexokinase domain containing 1	2.61E-06	No	No	Yes	No	No	No	No
201595	STT3B	STT3, subunit of the oligosaccharyltransferase complex, homolog B (S. cerevisiae)	2.65E-06	No	No	No	Yes	No	No	No
22866	CNKSR2	connector enhancer of kinase suppressor of Ras 2	2.66E-06	Yes	No	No	Yes	No	No	No
7292	TNFSF4	tumor necrosis factor (ligand) superfamily, member 4 (tax-transcriptionally activated glycoprotein 1, 34kDa)	2.66E-06	No	No	No	No	Yes	No	No
7812	CSDE1	cold shock domain containing E1, RNA-binding	2.67E-06	No	Yes	Yes	No	No	No	No
6492	SIM1	single-minded homolog 1 (Drosophila)	2.68E-06	Yes	No	Yes	No	No	No	No
23118	MAP3K7IP2	mitogen-activated protein kinase kinase kinase 7 interacting protein 2	2.68E-06	Yes	No	Yes	No	No	Yes	No
57404	CYP20A1	cytochrome P450, family 20, subfamily A, polypeptide 1	2.68E-06	Yes	No	Yes	No	No	No	No
84823	LMNB2	lamin B2	2.68E-06	No	No	Yes	No	No	No	No
9668	ZNF432	zinc finger protein 432	2.72E-06	Yes	No	Yes	No	No	Yes	No
2258	FGF13	fibroblast growth factor 13	2.73E-06	No	No	Yes	No	No	No	No
3932	LCK	lymphocyte-specific protein tyrosine kinase	2.74E-06	No	No	Yes	No	No	No	No
8707	B3GALT2	UDP-Gal:betaGlcNAc beta 1,3-galactosyltransferase, polypeptide 2	2.74E-06	No	No	Yes	No	No	No	No
257194	NEGR1	neuronal growth regulator 1	2.74E-06	No	No	Yes	No	No	No	No
285600	C5orf36	chromosome 5 open reading frame 36	2.74E-06	Yes	No	Yes	No	No	No	No
202309	C5orf29	chromosome 5 open reading frame 29	2.74E-06	Yes	No	Yes	No	No	No	No
23219	FBXO28	F-box protein 28	2.74E-06	No	No	Yes	No	No	No	No
23248	KIAA0460	KIAA0460	2.74E-06	No	No	Yes	No	No	No	No
4004	LMO1	LIM domain only 1 (rhombotin 1)	2.74E-06	No	No	No	Yes	No	No	No
8601	RGS20	regulator of G-protein signaling 20	2.75E-06	Yes	No	Yes	No	No	No	No
3747	KCNC2	potassium voltage-gated channel, Shaw-related subfamily, member 2	2.76E-06	No	No	Yes	No	No	No	No
6885	MAP3K7	mitogen-activated protein kinase kinase kinase 7	2.76E-06	No	No	Yes	No	No	No	No
51067	YARS2	tyrosyl-tRNA synthetase 2, mitochondrial	2.76E-06	No	No	Yes	No	No	No	No
28984	C13orf15	chromosome 13 open reading frame 15	2.76E-06	No	No	No	No	Yes	No	No
3628	INPP1	inositol polyphosphate-1-phosphatase	2.76E-06	No	No	Yes	No	No	No	No
51184	GPN3	GPN-loop GTPase 3	2.77E-06	No	No	No	Yes	No	Yes	No
10048	RANBP9	RAN binding protein 9	2.78E-06	No	No	No	No	No	No	No
238	ALK	anaplastic lymphoma receptor tyrosine kinase	2.79E-06	No	No	No	Yes	No	No	No
9757	MLL4	myeloid/lymphoid or mixed-lineage leukemia 4	2.79E-06	Yes	No	No	Yes	No	No	No
55652	FLJ20489	hypothetical protein FLJ20489	2.81E-06	No	No	Yes	No	No	No	No

4724	NDUFS4	NADH dehydrogenase (ubiquinone) Fe-S protein 4, 18kDa (NADH-coenzyme Q reductase)	2.82E-06	No	No	Yes	No	No	No	No
7543	ZFX	zinc finger protein, X-linked	2.82E-06	No	No	Yes	No	No	No	No
80204	FBXO11	F-box protein 11	2.83E-06	No	No	Yes	No	No	No	No
56062	KLHL4	kelch-like 4 (Drosophila)	2.83E-06	Yes	No	Yes	No	No	No	No
55689	YEATS2	YEATS domain containing 2	2.84E-06	No	No	Yes	No	No	No	No
2585	GALK2	galactokinase 2	2.84E-06	No	No	No	No	No	No	No
9318	COPS2	COP9 constitutive photomorphogenic homolog subunit 2 (Arabidopsis)	2.84E-06	No	No	No	No	No	No	No
79053	ALG8	asparagine-linked glycosylation 8 homolog (S. cerevisiae, alpha-1,3-glucosyltransferase)	2.85E-06	No	No	Yes	No	No	No	No
9317	PTER	phosphotriesterase related	2.86E-06	No	No	Yes	No	No	No	No
1874	E2F4	E2F transcription factor 4, p107/p130-binding	2.87E-06	No	No	Yes	No	No	No	No
79777	ACBD4	acyl-Coenzyme A binding domain containing 4	2.87E-06	No	No	No	Yes	No	No	No
25782	RAB3GAP2	RAB3 GTPase activating protein subunit 2 (non-catalytic)	2.87E-06	No	Yes	Yes	No	No	No	No
286148	DPY19L4	dpy-19-like 4 (C. elegans)	2.89E-06	Yes	No	Yes	No	No	No	No
9760	TOX	thymocyte selection-associated high mobility group box	2.89E-06	No	No	Yes	No	No	No	No
6102	RP2	retinitis pigmentosa 2 (X-linked recessive)	2.91E-06	No	No	Yes	No	No	No	No
50640	PNPLA8	patatin-like phospholipase domain containing 8	2.91E-06	No	No	Yes	No	No	No	No
27022	FOXO3	forkhead box D3	2.92E-06	Yes	No	Yes	No	No	No	No
10806	SDCCAG8	serologically defined colon cancer antigen 8	2.92E-06	Yes	No	No	No	No	No	No
128077	LIX1L	Lix1 homolog (mouse)-like	2.92E-06	Yes	No	No	Yes	No	No	No
84265	POLR3GL	polymerase (RNA) III (DNA directed) polypeptide G (32kD)-like	2.92E-06	No	No	No	Yes	No	Yes	No
9141	PDCD5	programmed cell death 5	2.92E-06	Yes	No	Yes	No	No	No	No
84896	ATAD1	ATPase family, AAA domain containing 1	2.93E-06	No	No	Yes	No	No	Yes	No
5289	PIK3C3	phosphoinositide-3-kinase, class 3	2.93E-06	Yes	No	No	Yes	No	No	No
9435	CHST2	carbohydrate (N-acetylglucosamine-6-O) sulfotransferase 2	2.94E-06	Yes	No	No	No	Yes	No	No
23008	KIAA0265	KIAA0265 protein	2.94E-06	Yes	No	Yes	No	No	No	No
4974	OMG	oligodendrocyte myelin glycoprotein	2.96E-06	No	No	Yes	No	No	No	No
84671	ZNF347	zinc finger protein 347	2.96E-06	No	No	Yes	No	No	No	No
23005	MAPKBP1	mitogen-activated protein kinase binding protein 1	2.96E-06	Yes	No	No	Yes	No	No	No
6389	SDHA	succinate dehydrogenase complex, subunit A, flavoprotein (Fp)	2.97E-06	No	No	No	Yes	No	No	No
402	ARL2	ADP-ribosylation factor-like 2	2.98E-06	No	No	No	Yes	No	No	No
7128	TNFAIP3	tumor necrosis factor, alpha-induced protein 3	2.98E-06	Yes	No	Yes	No	No	Yes	Yes
9476	NAPSA	napsin A aspartic peptidase	2.98E-06	No	No	No	Yes	No	No	No
203068	TUBB	tubulin, beta	2.99E-06	No	No	Yes	No	No	No	No
7851	MALL	mal, T-cell differentiation protein-like	2.99E-06	No	Yes	No	Yes	No	No	No

374467	C12orf63	chromosome 12 open reading frame 63	3.01E-06	NA	No	Yes	No	No	No	No
220	ALDH1A3	aldehyde dehydrogenase 1 family, member A3	3.04E-06	Yes	No	No	No	No	No	No
1540	CYLD	cylindromatosis (turban tumor syndrome)	3.04E-06	Yes	Yes	No	No	No	No	No
64131	XYLT1	xylosyltransferase 1	3.04E-06	No	Yes	No	Yes	No	No	No
148641	SLC35F3	solute carrier family 35, member F3	3.04E-06	No	No	Yes	No	No	No	No
80221	ACSF2	acyl-CoA synthetase family member 2	3.05E-06	No	No	No	Yes	No	Yes	No
79192	IRX1	irouquois homeobox 1	3.06E-06	No	No	Yes	No	No	No	No
10369	CACNG2	calcium channel, voltage-dependent, gamma subunit 2	3.06E-06	Yes	No	Yes	No	No	No	No
2306	FOXM1	forkhead box M1	3.07E-06	No	No	No	Yes	No	No	No
54800	KLHL24	kelch-like 24 (Drosophila)	3.07E-06	No	No	Yes	No	No	No	No
10343	PKDREJ	polycystic kidney disease (polycystin) and REJ homolog (sperm receptor for egg jelly homolog, sea urchin)	3.07E-06	No	No	Yes	No	No	No	No
811	CALR	calreticulin	3.09E-06	No	Yes	No	Yes	No	No	No
10314	LANCL1	LanC lantibiotic synthetase component C-like 1 (bacterial)	3.11E-06	No	No	Yes	No	No	No	No
116285	ACSM1	acyl-CoA synthetase medium-chain family member 1	3.12E-06	Yes	No	No	No	Yes	No	No
6666	SOX12	SRY (sex determining region Y)-box 12	3.13E-06	No	No	No	Yes	No	No	No
51512	GTSE1	G-2 and S-phase expressed 1	3.14E-06	No	No	Yes	No	No	No	No
84256	FLYWCH1	FLYWCH-type zinc finger 1	3.14E-06	No	No	No	Yes	No	No	No
10322	SMYD5	SMYD family member 5	3.15E-06	No	No	Yes	No	No	No	No
2331	FIMOD	fibromodulin	3.15E-06	No	No	No	Yes	No	No	No
145258	GSC	gooseoid homeobox	3.15E-06	No	No	Yes	No	No	No	No
30827	CXXC1	CXXC finger 1 (PHD domain)	3.17E-06	Yes	No	Yes	No	No	No	No
9321	TRIP11	thyroid hormone receptor interactor 11	3.17E-06	No	No	No	Yes	No	Yes	No
1021	CDK6	cyclin-dependent kinase 6	3.18E-06	No	No	Yes	No	No	No	No
51455	REV1	REV1 homolog (S. cerevisiae)	3.18E-06	No	No	Yes	No	No	No	No
6645	SNTB2	syntrophin, beta 2 (dystrophin-associated protein A1, 59kDa, basic component 2)	3.19E-06	No	No	No	Yes	No	No	No
253175	CDY1B	chromodomain protein, Y-linked, 1B	3.19E-06	No	No	Yes	No	No	No	No
10400	PEMT	phosphatidylethanolamine N-methyltransferase	3.19E-06	Yes	No	No	Yes	No	No	No
57623	ZFAT	zinc finger and AT hook domain containing	3.22E-06	No	No	Yes	No	No	No	No
4357	MPST	mercaptopyruvate sulfurtransferase	3.24E-06	No	No	No	No	Yes	No	No
5516	PPP2CB	protein phosphatase 2 (formerly 2A), catalytic subunit, beta isoform	3.24E-06	No	No	Yes	No	No	No	No
23169	SLC35D1	solute carrier family 35 (UDP-glucuronic acid/UDP-N-acetylgalactosamine dual transporter), member 1	3.24E-06	No	No	No	No	No	Yes	No
51582	AZIN1	antizyme inhibitor 1	3.27E-06	No	Yes	No	Yes	No	No	No
554251	FBXO48	F-box protein 48	3.27E-06	NA	No	No	Yes	No	No	No
4249	MGAT5	mannosyl (alpha-1,6-)-glycoprotein beta-1,6-N-acetylglucosaminyltransferase	3.28E-06	No	No	Yes	No	No	No	No

5341	PLEK	pleckstrin	3.29E-06	No	No	Yes	No	No	No	No
10908	PNPLA6	patatin-like phospholipase domain containing 6	3.29E-06	Yes	No	No	No	Yes	No	No
81847	RNF146	ring finger protein 146	3.29E-06	No	No	Yes	No	No	No	No
5684	PSMA3	proteasome (prosome, macropain) subunit, alpha type, 3	3.29E-06	No	No	No	Yes	No	Yes	No
30849	PIK3R4	phosphoinositide-3-kinase, regulatory subunit 4	3.30E-06	No	No	Yes	No	No	No	No
9203	ZMYM3	zinc finger, MYM-type 3	3.30E-06	No	Yes	Yes	No	No	No	No
346389	7A5	putative binding protein 7a5	3.31E-06	Yes	No	No	Yes	No	Yes	No
79007	DBNDD1	dysbindin (dystrobrevin binding protein 1) domain containing 1	3.33E-06	No	No	Yes	No	No	No	No
285671	RNF180	ring finger protein 180	3.34E-06	NA	No	Yes	No	No	No	No
3858	KRT10	keratin 10 (epidermolytic hyperkeratosis; keratosis palmaris et plantaris)	3.34E-06	No	No	Yes	No	No	No	No
79675	FASTKD1	FAST kinase domains 1	3.35E-06	No	No	Yes	No	No	No	No
3512	IGJ	immunoglobulin J polypeptide, linker protein for immunoglobulin alpha and mu polypeptides	3.35E-06	No	No	Yes	No	No	No	No
138649	ANKRD19	ankyrin repeat domain 19	3.39E-06	No	No	No	No	No	No	No
79998	ANKRD53	ankyrin repeat domain 53	3.41E-06	No	No	No	Yes	No	No	No
4627	MYH9	myosin, heavy chain 9, non-muscle	3.41E-06	No	No	No	Yes	No	No	No
2778	GNAS	GNAS complex locus	3.41E-06	No	No	No	No	No	No	No
222068	TMED4	transmembrane emp24 protein transport domain containing 4	3.41E-06	No	Yes	No	No	No	No	No
63826	SRR	serine racemase	3.43E-06	Yes	No	Yes	No	No	No	No
10473	HMGN4	high mobility group nucleosomal binding domain 4	3.46E-06	Yes	No	No	No	Yes	No	No
89849	ATG16L2	ATG16 autophagy related 16-like 2 (S. cerevisiae)	3.48E-06	Yes	No	No	No	Yes	No	No
339122	RAB43	RAB43, member RAS oncogene family	3.49E-06	Yes	No	Yes	No	No	No	No
79869	FLJ12529	pre-mRNA cleavage factor I, 59 kDa subunit	3.49E-06	No	No	No	Yes	No	Yes	No
54949	C11orf79	chromosome 11 open reading frame 79	3.49E-06	No	No	No	Yes	No	Yes	No
9577	BRE	brain and reproductive organ-expressed (TNFRSF1A modulator)	3.49E-06	No	Yes	Yes	No	No	Yes	No
10808	HSPH1	heat shock 105kDa/110kDa protein 1	3.51E-06	No	No	No	Yes	No	No	No
338674	OR5F1	olfactory receptor, family 5, subfamily F, member 1	3.53E-06	NA	No	Yes	No	No	No	No
166378	SPATA5	spermatogenesis associated 5	3.54E-06	No	No	Yes	No	No	Yes	No
5172	SLC26A4	solute carrier family 26, member 4	3.54E-06	No	No	No	Yes	No	Yes	No
54778	RNF111	ring finger protein 111	3.55E-06	No	No	No	Yes	No	No	No
10991	SLC38A3	solute carrier family 38, member 3	3.57E-06	No	No	Yes	No	No	No	No
85465	SELI	selenoprotein I	3.60E-06	No	No	Yes	No	No	No	No
219743	TYSND1	trypsin domain containing 1	3.61E-06	No	No	No	No	Yes	No	No
7335	UBE2V1	ubiquitin-conjugating enzyme E2 variant 1	3.62E-06	NA	No	Yes	No	No	No	No
489	ATP2A3	ATPase, Ca++ transporting, ubiquitous	3.62E-06	No	No	No	Yes	No	No	No

23705	CADM1	cell adhesion molecule 1	3.62E-06	No	No	Yes	No	No	No	No
81539	SLC38A1	solute carrier family 38, member 1	3.64E-06	Yes	No	Yes	No	No	No	No
6272	SORT1	sortilin 1	3.65E-06	No	No	Yes	No	No	No	No
6171	RPL41	ribosomal protein L41	3.67E-06	NA	No	No	Yes	No	Yes	No
5467	PPARD	peroxisome proliferator-activated receptor delta	3.68E-06	Yes	No	No	Yes	No	No	No
3516	RBPJ	recombination signal binding protein for immunoglobulin kappa J region	3.69E-06	No	No	Yes	No	No	No	No
8128	ST8SIA2	ST8 alpha-N-acetylneuraminide alpha-2,8-sialyltransferase 2	3.69E-06	No	No	Yes	No	No	No	No
23639	LRR06	leucine rich repeat containing 6	3.72E-06	No	No	No	Yes	No	No	No
708	C1QBP	complement component 1, q subcomponent binding protein	3.74E-06	No	No	No	Yes	No	No	No
6580	SLC22A1	solute carrier family 22 (organic cation transporter), member 1	3.75E-06	No	No	No	Yes	No	No	No
57459	GATAD2B	GATA zinc finger domain containing 2B	3.76E-06	Yes	No	Yes	No	No	No	No
57379	AICDA	activation-induced cytidine deaminase	3.78E-06	No	No	Yes	No	No	No	No
60490	PPCDC	phosphopantothencysteine decarboxylase	3.78E-06	No	No	No	Yes	No	No	No
83941	TM2D1	TM2 domain containing 1	3.80E-06	Yes	No	Yes	No	No	No	No
2296	FOXC1	forkhead box C1	3.80E-06	No	No	Yes	No	No	No	No
666	BOK	BCL2-related ovarian killer	3.80E-06	No	No	Yes	No	No	No	No
182	JAG1	jagged 1 (Alagille syndrome)	3.81E-06	No	No	Yes	No	No	No	No
7430	EZR	ezrin	3.82E-06	No	No	Yes	No	No	No	No
23081	JMJ2C	jumonji domain containing 2C	3.83E-06	No	No	Yes	No	No	No	No
7764	ZNF217	zinc finger protein 217	3.83E-06	Yes	No	Yes	No	No	No	No
54581	SCAND2	SCAN domain containing 2	3.87E-06	No	No	Yes	No	No	No	No
6776	STAT5A	signal transducer and activator of transcription 5A	3.87E-06	Yes	No	No	Yes	No	No	No
129642	MBOAT2	membrane bound O-acyltransferase domain containing 2	3.88E-06	No	No	Yes	No	No	No	No
285555	C4orf37	chromosome 4 open reading frame 37	3.89E-06	No	No	Yes	No	No	No	No
5570	PKIB	protein kinase (cAMP-dependent, catalytic) inhibitor beta	3.93E-06	No	No	Yes	No	No	Yes	No
51389	RWDD1	RWD domain containing 1	3.93E-06	No	No	No	Yes	No	No	No
388585	HES5	hairy and enhancer of split 5 (Drosophila)	3.96E-06	No	No	No	No	No	No	No
2189	FANCG	Fanconi anemia, complementation group G	3.96E-06	No	No	No	Yes	No	No	No
115761	ARL11	ADP-ribosylation factor-like 11	3.97E-06	No	No	Yes	No	No	No	No
27071	DAPP1	dual adaptor of phosphotyrosine and 3-phosphoinositides	3.97E-06	No	No	Yes	No	No	No	No
139341	FUNDC1	FUN14 domain containing 1	4.00E-06	No	No	Yes	No	No	No	No
5646	PRSS3	protease, serine, 3	4.01E-06	No	No	No	Yes	No	No	No
8492	PRSS12	protease, serine, 12 (neurotrypsin, motopsin)	4.01E-06	No	No	Yes	No	No	No	No
431705	ASTL	astacin-like metallo-endopeptidase (M12 family)	4.01E-06	NA	No	No	Yes	No	No	No

10213	PSMD14	proteasome (prosome, macropain) 26S subunit, non-ATPase, 14	4.02E-06	No	No	Yes	No	No	No	No
8428	STK24	serine/threonine kinase 24 (STE20 homolog, yeast)	4.02E-06	No	No	No	No	Yes	No	No
1830	DSG3	desmoglein 3 (pemphigus vulgaris antigen)	4.03E-06	No	No	Yes	No	No	No	No
54102	CLIC6	chloride intracellular channel 6	4.04E-06	No	No	Yes	No	No	No	No
55577	NAGK	N-acetylglucosamine kinase	4.04E-06	No	No	No	Yes	No	No	No
25813	SAMM50	sorting and assembly machinery component 50 homolog (S. cerevisiae)	4.04E-06	No	No	No	Yes	No	No	No
2354	FOSB	FBJ murine osteosarcoma viral oncogene homolog B	4.05E-06	Yes	No	Yes	No	No	No	No
7358	UGDH	UDP-glucose dehydrogenase	4.05E-06	No	Yes	Yes	No	No	No	No
26819	SNORD32A	small nucleolar RNA, C/D box 32A	4.07E-06	NA	No	Yes	No	No	No	No
51164	DCTN4	dynactin 4 (p62)	4.10E-06	No	No	Yes	No	No	No	No
8436	SDPR	serum deprivation response (phosphatidylserine binding protein)	4.11E-06	No	No	No	Yes	No	No	No
9308	CD83	CD83 molecule	4.13E-06	Yes	No	Yes	No	No	No	No
6733	SRPK2	SFRS protein kinase 2	4.13E-06	Yes	Yes	Yes	No	No	No	No
7161	TP73	tumor protein p73	4.14E-06	No	No	Yes	No	No	No	No
49856	WDR8	WD repeat domain 8	4.14E-06	No	No	Yes	No	No	No	No
8894	EIF2S2	eukaryotic translation initiation factor 2, subunit 2 beta, 38kDa	4.14E-06	No	No	Yes	No	No	No	No
934	CD24	CD24 molecule	4.15E-06	Yes	No	Yes	No	No	No	No
8611	PPAP2A	phosphatidic acid phosphatase type 2A	4.15E-06	No	No	Yes	No	No	No	No
4725	NDUFS5	NADH dehydrogenase (ubiquinone) Fe-S protein 5, 15kDa (NADH-coenzyme Q reductase)	4.16E-06	No	No	No	Yes	No	No	No
115353	LRRC42	leucine rich repeat containing 42	4.16E-06	No	No	Yes	No	No	No	No
10560	SLC19A2	solute carrier family 19 (thiamine transporter), member 2	4.16E-06	No	No	Yes	No	No	No	No
8925	HERC1	hect (homologous to the E6-AP (UBE3A) carboxyl terminus) domain and RCC1 (CHC1)-like domain (RLD) 1	4.17E-06	No	No	Yes	No	No	No	No
3295	HSD17B4	hydroxysteroid (17-beta) dehydrogenase 4	4.18E-06	No	No	Yes	No	No	No	No
2107	ETF1	eukaryotic translation termination factor 1	4.20E-06	No	No	No	No	Yes	No	No
23387	KIAA0999	KIAA0999 protein	4.20E-06	Yes	No	Yes	No	No	No	No
8493	PPM1D	protein phosphatase 1D magnesium-dependent, delta isoform	4.24E-06	No	No	No	Yes	No	No	No
84811	BUD13	BUD13 homolog (S. cerevisiae)	4.26E-06	No	No	No	Yes	No	No	No
3142	HLX	H2.0-like homeobox	4.26E-06	Yes	No	Yes	No	No	No	No
221391	OPN5	opsin 5	4.26E-06	No	No	Yes	No	No	No	No
28513	CDH19	cadherin 19, type 2	4.27E-06	No	No	Yes	No	No	No	No
9469	CHST3	carbohydrate (chondroitin 6) sulfotransferase 3	4.30E-06	No	No	No	Yes	No	No	No
1967	EIF2B1	eukaryotic translation initiation factor 2B, subunit 1 alpha, 26kDa	4.30E-06	No	No	Yes	No	No	No	No
2004	ELK3	ELK3, ETS-domain protein (SRF accessory protein 2)	4.31E-06	No	No	Yes	No	No	No	No
55038	CDC44	cell division cycle associated 4	4.31E-06	No	No	No	No	No	Yes	No

50626	CYHR1	cysteine/histidine-rich 1	4.34E-06	Yes	No	No	No	No	No	No	No
374918	IGFL1	IGF-like family member 1	4.36E-06	Yes	No	Yes	No	No	No	No	No
26031	OSBPL3	oxysterol binding protein-like 3	4.36E-06	No	No	No	Yes	No	Yes	No	No
11043	MID2	midline 2	4.38E-06	No	No	No	Yes	No	No	No	No
6532	SLC6A4	solute carrier family 6 (neurotransmitter transporter, serotonin), member 4	4.39E-06	No	No	No	Yes	No	Yes	No	No
2735	GLI1	glioma-associated oncogene homolog 1 (zinc finger protein)	4.39E-06	Yes	No	No	Yes	No	Yes	No	No
129401	NUP35	nucleoporin 35kDa	4.39E-06	No	No	Yes	No	No	No	No	No
6397	SEC14L1	SEC14-like 1 (S. cerevisiae)	4.39E-06	No	Yes	Yes	No	No	No	No	No
54704	PPM2C	protein phosphatase 2C, magnesium-dependent, catalytic subunit	4.40E-06	Yes	No	Yes	No	No	Yes	No	No
7852	CXCR4	chemokine (C-X-C motif) receptor 4	4.40E-06	No	No	No	No	Yes	Yes	No	No
506	ATP5B	ATP synthase, H+ transporting, mitochondrial F1 complex, beta polypeptide	4.41E-06	No	No	No	Yes	No	No	No	No
57617	VPS18	vacuolar protein sorting 18 homolog (S. cerevisiae)	4.44E-06	No	No	Yes	No	No	No	No	No
286826	LIN9	lin-9 homolog (C. elegans)	4.45E-06	No	No	Yes	No	No	No	No	No
10667	FARS2	phenylalanyl-tRNA synthetase 2, mitochondrial	4.48E-06	No	No	Yes	No	No	Yes	No	No
54221	SNTG2	syntrophin, gamma 2	4.48E-06	Yes	No	No	Yes	No	No	No	No
3276	PRMT1	protein arginine methyltransferase 1	4.50E-06	No	No	Yes	No	No	No	No	No
137964	AGPAT6	1-acylglycerol-3-phosphate O-acyltransferase 6 (lysophosphatidic acid acyltransferase, zeta)	4.50E-06	No	No	Yes	No	No	No	No	No
904	CCNT1	cyclin T1	4.50E-06	No	No	Yes	No	No	No	No	No
5471	PPAT	phosphoribosyl pyrophosphate amidotransferase	4.50E-06	No	No	Yes	No	No	No	No	No
387921	NHLRC3	NHL repeat containing 3	4.52E-06	Yes	Yes	Yes	No	No	Yes	No	No
23186	RCOR1	REST corepressor 1	4.52E-06	No	No	No	Yes	No	No	No	No
29066	ZC3H7A	zinc finger CCCH-type containing 7A	4.55E-06	No	No	Yes	No	No	Yes	No	No
54894	RNF43	ring finger protein 43	4.58E-06	No	No	Yes	No	No	No	No	No
115992	RNF166	ring finger protein 166	4.58E-06	Yes	No	No	Yes	No	No	No	No
3281	HSBP1	heat shock factor binding protein 1	4.58E-06	No	No	Yes	No	No	No	No	No
83853	ROPN1L	ropporin 1-like	4.58E-06	No	No	Yes	No	No	No	No	No
3108	HLA-DMA	major histocompatibility complex, class II, DM alpha	4.60E-06	No	No	Yes	No	No	No	No	No
84316	LSMD1	LSM domain containing 1	4.61E-06	No	No	Yes	No	No	Yes	No	No
50809	HP1BP3	heterochromatin protein 1, binding protein 3	4.62E-06	No	No	Yes	No	No	No	No	No
57630	SH3RF1	SH3 domain containing ring finger 1	4.62E-06	No	No	No	No	Yes	No	No	No
9877	ZC3H11A	zinc finger CCCH-type containing 11A	4.64E-06	No	No	Yes	No	No	No	No	No
5783	PTPN13	protein tyrosine phosphatase, non-receptor type 13 (APO-1/CD95 (Fas)-associated phosphatase)	4.64E-06	No	No	No	No	Yes	No	No	No
51809	GALNT7	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 7 (GalNAc-T7)	4.64E-06	Yes	No	Yes	No	No	No	No	No
54788	DNAJB12	DnaJ (Hsp40) homolog, subfamily B, member 12	4.67E-06	No	No	No	Yes	No	No	No	No

22944	KIN	KIN, antigenic determinant of recA protein homolog (mouse)	4.68E-06	Yes	No	No	Yes	No	No	No
84056	KATNAL1	katarin p60 subunit A-like 1	4.70E-06	No	Yes	No	Yes	No	No	No
23090	ZNF423	zinc finger protein 423	4.70E-06	No	No	Yes	No	No	No	No
58492	ZNF77	zinc finger protein 77	4.74E-06	No	No	Yes	No	No	No	No
29107	NXT1	NTF2-like export factor 1	4.74E-06	Yes	No	Yes	No	No	Yes	No
284114	TMEM102	transmembrane protein 102	4.74E-06	No	No	No	Yes	No	No	No
10671	DCTN6	dynactin 6	4.75E-06	No	No	No	Yes	No	Yes	No
27230	SERP1	stress-associated endoplasmic reticulum protein 1	4.76E-06	No	No	No	No	Yes	No	No
83939	EIF2A	eukaryotic translation initiation factor 2A, 65kDa	4.76E-06	No	No	No	No	Yes	No	No
4150	MAZ	MYC-associated zinc finger protein (purine-binding transcription factor)	4.77E-06	No	No	Yes	No	No	No	No
10049	DNAJB6	DnaJ (Hsp40) homolog, subfamily B, member 6	4.78E-06	Yes	No	Yes	No	No	No	No
8001	GLRA3	glycine receptor, alpha 3	4.82E-06	No	No	Yes	No	No	No	No
5378	PMS1	PMS1 postmeiotic segregation increased 1 (S. cerevisiae)	4.83E-06	No	No	Yes	No	No	No	No
94101	ORMDL1	ORM1-like 1 (S. cerevisiae)	4.83E-06	No	No	Yes	No	No	No	No
57084	SLC17A6	solute carrier family 17 (sodium-dependent inorganic phosphate cotransporter), member 6	4.86E-06	No	No	Yes	No	No	No	No
2195	FAT	FAT tumor suppressor homolog 1 (Drosophila)	4.88E-06	No	No	Yes	No	No	No	No
1002	CDH4	cadherin 4, type 1, R-cadherin (retinal)	4.91E-06	No	No	No	No	No	No	No
25768	PRPF40B	PRP40 pre-mRNA processing factor 40 homolog B (S. cerevisiae)	4.94E-06	Yes	No	No	Yes	No	Yes	No
10296	MAEA	macrophage erythroblast attacher	4.94E-06	Yes	No	No	No	No	No	No
162494	RHBDL3	rhomboid, veinlet-like 3 (Drosophila)	4.96E-06	Yes	No	No	No	Yes	No	No
51311	TLR8	toll-like receptor 8	4.98E-06	No	No	Yes	No	No	No	No
51642	MRPL48	mitochondrial ribosomal protein L48	4.99E-06	No	No	Yes	No	No	No	No
3915	LAMC1	laminin, gamma 1 (formerly LAMB2)	5.01E-06	Yes	No	Yes	No	No	Yes	Yes
5914	RARA	retinoic acid receptor, alpha	5.01E-06	Yes	No	No	Yes	No	No	No
9695	EDEM1	ER degradation enhancer, mannosidase alpha-like 1	5.02E-06	No	No	Yes	No	No	No	No
89953	KLC4	kinesin light chain 4	5.03E-06	No	No	No	No	Yes	No	No
143279	HECTD2	HECT domain containing 2	5.03E-06	No	No	No	No	No	No	No
56159	TEX11	testis expressed 11	5.04E-06	Yes	No	Yes	No	No	No	No
2079	ERH	enhancer of rudimentary homolog (Drosophila)	5.07E-06	No	No	Yes	No	No	No	No
11101	ATE1	arginyltransferase 1	5.07E-06	No	No	No	Yes	No	No	No
10849	CD3EAP	CD3e molecule, epsilon associated protein	5.08E-06	No	No	No	Yes	No	Yes	No
5473	PPBP	pro-platelet basic protein (chemokine (C-X-C motif) ligand 7)	5.09E-06	No	No	Yes	No	No	No	No
50814	NSDHL	NAD(P) dependent steroid dehydrogenase-like	5.09E-06	No	No	Yes	No	No	No	No
2	A2M	alpha-2-macroglobulin	5.09E-06	Yes	No	Yes	No	No	No	No

9313	MMP20	matrix metalloproteinase 20	5.09E-06	No	No	No	Yes	No	No	No
2803	GOLGA4	golgi autoantigen, golgin subfamily a, 4	5.10E-06	No	No	No	No	No	No	No
9879	DDX46	DEAD (Asp-Glu-Ala-Asp) box polypeptide 46	5.10E-06	No	No	Yes	No	No	No	No
55188	RIC8B	resistance to inhibitors of cholinesterase 8 homolog B (C. elegans)	5.10E-06	No	No	Yes	No	No	No	No
4197	MDS1	myelodysplasia syndrome 1	5.10E-06	Yes	No	Yes	No	No	No	No
4163	MCC	mutated in colorectal cancers	5.11E-06	No	No	Yes	No	No	No	No
5464	PPA1	pyrophosphatase (inorganic) 1	5.11E-06	No	No	No	Yes	No	No	No
83692	CD98L2	CD98 molecule-like 2	5.13E-06	Yes	No	No	Yes	No	Yes	No
2042	EPHA3	EPH receptor A3	5.16E-06	Yes	No	No	Yes	No	No	No
1267	CNP	2',3'-cyclic nucleotide 3' phosphodiesterase	5.16E-06	Yes	No	No	Yes	No	No	No
79368	FCRL2	Fc receptor-like 2	5.16E-06	No	No	No	Yes	No	No	No
9925	ZBTB5	zinc finger and BTB domain containing 5	5.19E-06	No	No	Yes	No	No	No	No
11196	SEC23IP	SEC23 interacting protein	5.20E-06	No	No	Yes	No	No	No	No
6455	SH3GL1	SH3-domain GRB2-like 1	5.21E-06	Yes	No	No	No	No	No	No
634	CEACAM1	carcinoembryonic antigen-related cell adhesion molecule 1 (biliary glycoprotein)	5.21E-06	No	No	No	Yes	No	No	No
122769	PP1L5	peptidylprolyl isomerase (cyclophilin)-like 5	5.21E-06	No	No	Yes	No	No	Yes	No
83930	STARD3NL	STARD3 N-terminal like	5.21E-06	No	No	Yes	No	No	No	No
114789	SLC25A25	solute carrier family 25 (mitochondrial carrier; phosphate carrier), member 25	5.22E-06	No	No	Yes	No	No	No	No
51123	ZNF706	zinc finger protein 706	5.23E-06	Yes	No	Yes	No	No	No	No
23321	TRIM2	tripartite motif-containing 2	5.24E-06	No	No	Yes	No	No	No	No
135293	PM20D2	peptidase M20 domain containing 2	5.24E-06	No	No	Yes	No	No	No	No
1459	CSNK2A2	casein kinase 2, alpha prime polypeptide	5.26E-06	No	No	Yes	No	No	No	No
2009	EML1	echinoderm microtubule associated protein like 1	5.26E-06	No	No	No	Yes	No	No	No
145282	MIPOL1	mirror-image polydactyl 1	5.29E-06	No	No	No	Yes	No	No	No
6712	SPTBN2	spectrin, beta, non-erythrocytic 2	5.32E-06	No	No	No	Yes	No	No	No
25895	FAM119B	family with sequence similarity 119, member B	5.32E-06	No	No	Yes	No	No	No	No
55004	C11orf59	chromosome 11 open reading frame 59	5.35E-06	No	No	Yes	No	No	No	No
8747	ADAM21	ADAM metalloproteinase domain 21	5.36E-06	No	No	No	Yes	No	No	No
6717	SRI	sorcin	5.37E-06	No	No	Yes	No	No	No	No
5725	PTBP1	polypyrimidine tract binding protein 1	5.37E-06	Yes	No	No	No	No	No	No
56993	TOMM22	translocase of outer mitochondrial membrane 22 homolog (yeast)	5.38E-06	No	No	Yes	No	No	No	No
2166	FAAH	fatty acid amide hydrolase	5.39E-06	No	No	Yes	No	No	No	No
8270	LAGE3	L antigen family, member 3	5.40E-06	No	No	Yes	No	No	No	No
1781	DYNC112	dynein, cytoplasmic 1, intermediate chain 2	5.44E-06	Yes	No	No	Yes	No	No	No

79037	PVRIG	poliovirus receptor related immunoglobulin domain containing	5.44E-06	No	No	No	No	No	No	No	No
8228	PNPLA4	patatin-like phospholipase domain containing 4	5.45E-06	No	No	No	Yes	No	No	No	No
6014	RIT2	Ras-like without CAAX 2	5.45E-06	No	No	No	No	No	No	No	No
10921	RNPS1	RNA binding protein S1, serine-rich domain	5.45E-06	No	No	No	No	Yes	No	No	No
2113	ETS1	v-ets erythroblastosis virus E26 oncogene homolog 1 (avian)	5.45E-06	No	No	Yes	No	No	Yes	No	No
126133	ALDH16A1	aldehyde dehydrogenase 16 family, member A1	5.46E-06	Yes	No	No	Yes	No	No	No	No
55011	PIH1D1	PIH1 domain containing 1	5.46E-06	No	No	No	Yes	No	No	No	No
4292	MLH1	mutL homolog 1, colon cancer, nonpolyposis type 2 (E. coli)	5.49E-06	No	No	Yes	No	No	Yes	No	No
51278	IER5	immediate early response 5	5.52E-06	Yes	Yes	Yes	No	No	Yes	No	No
6388	SDF2	stromal cell-derived factor 2	5.53E-06	No	No	No	No	Yes	Yes	Yes	Yes
375347	DNAH12L	dynein, axonemal, heavy chain 12-like	5.54E-06	NA	No	No	Yes	No	No	No	No
161	AP2A2	adaptor-related protein complex 2, alpha 2 subunit	5.54E-06	No	No	No	Yes	No	No	No	No
54922	RASIP1	Ras interacting protein 1	5.55E-06	Yes	No	No	No	No	No	No	No
23429	RYBP	RING1 and YY1 binding protein	5.60E-06	No	No	Yes	No	No	No	No	No
54839	LRRC49	leucine rich repeat containing 49	5.62E-06	No	No	Yes	No	No	No	No	No
80312	TET1	tet oncogene 1	5.64E-06	NA	No	Yes	No	No	No	No	No
5250	SLC25A3	solute carrier family 25 (mitochondrial carrier, phosphate carrier), member 3	5.65E-06	No	No	Yes	No	No	No	No	No
26121	PRPF31	PRPF31 pre-mRNA processing factor 31 homolog (S. cerevisiae)	5.68E-06	Yes	No	Yes	No	No	No	No	No
10225	CD96	CD96 molecule	5.74E-06	Yes	No	Yes	No	No	No	No	No
91369	ANKRD40	ankyrin repeat domain 40	5.74E-06	No	No	Yes	No	No	No	No	No
5532	PPP3CB	protein phosphatase 3 (formerly 2B), catalytic subunit, beta isoform	5.75E-06	No	Yes	No	Yes	No	No	No	No
4343	MOV10	Mov10, Moloney leukemia virus 10, homolog (mouse)	5.76E-06	Yes	No	No	Yes	No	No	No	No
63917	GALNT11	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylglucosaminyltransferase 11 (GalNAc-T11)	5.76E-06	Yes	No	No	No	No	No	No	No
4282	MIF	macrophage migration inhibitory factor (glycosylation-inhibiting factor)	5.76E-06	No	No	No	No	Yes	No	No	No
5458	POU4F2	POU class 4 homeobox 2	5.79E-06	No	No	Yes	No	No	No	No	No
6598	SMARCB1	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily b, member 1	5.79E-06	No	No	Yes	No	No	No	No	No
1000	CDH2	cadherin 2, type 1, N-cadherin (neuronal)	5.87E-06	No	No	Yes	No	No	No	No	No
57326	PBXIP1	pre-B-cell leukemia homeobox interacting protein 1	5.87E-06	Yes	No	No	Yes	No	No	No	No
53834	FGFRL1	fibroblast growth factor receptor-like 1	5.88E-06	No	No	No	No	Yes	No	No	No
4938	OAS1	2',5'-oligoadenylate synthetase 1, 40/46kDa	5.88E-06	Yes	No	Yes	No	No	Yes	No	No
26136	TES	testis derived transcript (3 LIM domains)	5.89E-06	Yes	No	Yes	No	No	No	No	No
1889	ECE1	endothelin converting enzyme 1	5.89E-06	Yes	No	No	Yes	No	Yes	Yes	Yes
7760	ZNF213	zinc finger protein 213	5.90E-06	No	No	Yes	No	No	No	No	No
3423	IDS	iduronate 2-sulfatase (Hunter syndrome)	5.90E-06	Yes	No	No	Yes	No	No	No	No

9728	KIAA0256	KIAA0256 gene product	5.91E-06	Yes	No	No	Yes	No	No	No
2804	GOLGB1	golgin B1, golgi integral membrane protein	5.93E-06	No	No	No	No	Yes	No	No
120227	CYP2R1	cytochrome P450, family 2, subfamily R, polypeptide 1	5.93E-06	No	No	No	Yes	No	No	No
23204	ARL6IP1	ADP-ribosylation factor-like 6 interacting protein 1	5.98E-06	No	No	Yes	No	No	No	No
55700	MAP7D1	MAP7 domain containing 1	6.00E-06	No	No	Yes	No	No	No	No
27095	TRAPPC3	trafficking protein particle complex 3	6.00E-06	No	No	Yes	No	No	No	No
64218	SEMA4A	sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain (semaphorin) 4A	6.00E-06	No	No	No	Yes	No	No	No
5209	PFKFB3	6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase 3	6.01E-06	No	No	No	Yes	No	No	No
201176	ARHGAP27	Rho GTPase activating protein 27	6.01E-06	Yes	No	No	Yes	No	No	No
55851	PSENN	presenilin enhancer 2 homolog (C. elegans)	6.02E-06	No	No	Yes	No	No	No	No
220992	ZNF485	zinc finger protein 485	6.03E-06	Yes	No	Yes	No	No	No	No
7048	TGFB2	transforming growth factor, beta receptor II (70/80kDa)	6.04E-06	Yes	Yes	Yes	No	No	No	No
56670	SUCNR1	succinate receptor 1	6.04E-06	Yes	No	Yes	No	No	No	No
25843	MOBK1	MOBK1, Mps One Binder kinase activator-like 3 (yeast)	6.05E-06	No	No	Yes	No	No	Yes	No
26061	HACL1	2-hydroxyacyl-CoA lyase 1	6.05E-06	No	No	No	Yes	No	Yes	No
64167	ERAP2	endoplasmic reticulum aminopeptidase 2	6.07E-06	No	No	Yes	No	No	No	No
7005	TEAD3	TEA domain family member 3	6.08E-06	No	No	No	Yes	No	No	No
54386	TERF2IP	telomeric repeat binding factor 2, interacting protein	6.08E-06	No	No	No	No	Yes	No	No
1427	CRYGS	crystallin, gamma S	6.10E-06	No	No	Yes	No	No	No	No
7750	ZMY2	zinc finger, MYM-type 2	6.10E-06	No	No	No	No	Yes	No	No
23327	NEDD4L	neural precursor cell expressed, developmentally down-regulated 4-like	6.13E-06	No	No	Yes	No	No	No	No
6495	SIX1	SIX homeobox 1	6.13E-06	Yes	No	Yes	No	No	No	No
285313	IGSF10	immunoglobulin superfamily, member 10	6.16E-06	No	No	Yes	No	No	No	No
567	B2M	beta-2-microglobulin	6.17E-06	Yes	No	Yes	No	No	Yes	No
2780	GNAT2	guanine nucleotide binding protein (G protein), alpha transducing activity polypeptide 2	6.17E-06	No	No	No	No	Yes	No	No
9532	BAG2	BCL2-associated athanogene 2	6.19E-06	No	No	No	No	Yes	No	No
79590	MRPL24	mitochondrial ribosomal protein L24	6.20E-06	No	No	No	Yes	No	No	No
11122	PTPRT	protein tyrosine phosphatase, receptor type, T	6.23E-06	No	No	No	Yes	No	No	No
85025	TMEM60	transmembrane protein 60	6.25E-06	No	No	Yes	No	No	Yes	No
440695	ETV3L	ets variant gene 3-like	6.25E-06	NA	No	No	No	Yes	No	No
2045	EPHA7	EPH receptor A7	6.26E-06	No	No	Yes	No	No	No	No
1602	DACH1	dachshund homolog 1 (Drosophila)	6.27E-06	No	No	Yes	No	No	No	No
5717	PSMD11	proteasome (prosome, macropain) 26S subunit, non-ATPase, 11	6.28E-06	No	No	No	No	No	No	No
10962	MLLT11	myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); translocated to, 11	6.30E-06	Yes	No	Yes	No	No	Yes	No

114327	EFHC1	EF-hand domain (C-terminal) containing 1	6.31E-06	No	No	No	Yes	No	No	No
10026	PICK	phosphatidylinositol glycan anchor biosynthesis, class K	6.34E-06	No	No	Yes	No	No	No	No
81621	KAZALD1	Kazal-type serine peptidase inhibitor domain 1	6.42E-06	No	No	No	Yes	No	Yes	No
10672	GNA13	guanine nucleotide binding protein (G protein), alpha 13	6.42E-06	No	No	No	No	Yes	No	No
58516	FAM60A	family with sequence similarity 60, member A	6.43E-06	No	No	No	Yes	No	Yes	No
55039	TRMT12	tRNA methyltransferase 12 homolog (S. cerevisiae)	6.44E-06	No	No	Yes	No	No	No	No
2187	FANCB	Fanconi anemia, complementation group B	6.44E-06	No	No	No	No	No	No	No
53347	UBASH3A	ubiquitin associated and SH3 domain containing, A	6.44E-06	No	No	No	Yes	No	No	No
64699	TMPRSS3	transmembrane protease, serine 3	6.44E-06	No	No	No	Yes	No	No	No
23637	RABGAP1	RAB GTPase activating protein 1	6.48E-06	No	Yes	Yes	No	No	No	No
57684	ZBTB26	zinc finger and BTB domain containing 26	6.48E-06	No	No	Yes	No	No	No	No
1776	DNASE1L3	deoxyribonuclease I-like 3	6.48E-06	Yes	No	Yes	No	No	No	No
6934	TCF7L2	transcription factor 7-like 2 (T-cell specific, HMG-box)	6.48E-06	Yes	No	Yes	No	No	No	No
2181	ACSL3	acyl-CoA synthetase long-chain family member 3	6.49E-06	Yes	Yes	Yes	No	No	No	No
9787	DLGAP5	discs, large (Drosophila) homolog-associated protein 5	6.52E-06	No	No	No	Yes	No	No	No
387836	CLEC2A	C-type lectin domain family 2, member A	6.53E-06	NA	No	Yes	No	No	No	No
8831	SYNGAP1	synaptic Ras GTPase activating protein 1 homolog (rat)	6.54E-06	Yes	No	Yes	No	No	No	No
22834	ZNF652	zinc finger protein 652	6.54E-06	Yes	No	Yes	No	No	No	No
2554	GABRA1	gamma-aminobutyric acid (GABA) A receptor, alpha 1	6.56E-06	No	No	Yes	No	No	No	No
3996	LLGL1	lethal giant larvae homolog 1 (Drosophila)	6.56E-06	No	No	No	No	No	No	No
29766	TMOD3	tropomodulin 3 (ubiquitous)	6.59E-06	Yes	No	No	Yes	No	No	No
8362	HIST1H4K	histone cluster 1, H4k	6.61E-06	No	Yes	Yes	No	No	Yes	No
4689	NCF4	neutrophil cytosolic factor 4, 40kDa	6.62E-06	No	No	Yes	No	No	Yes	No
400926	FLJ90680	FLJ90680 protein	6.62E-06	NA	No	Yes	No	No	No	No
400556	FLJ45121	FLJ45121 protein	6.63E-06	NA	No	No	Yes	No	No	No
5552	SRGN	serglycin	6.63E-06	No	No	Yes	No	No	No	No
400965	LOC400965	hypothetical gene supported by AK098018	6.63E-06	NA	No	No	Yes	No	No	No
3096	HIVEP1	human immunodeficiency virus type 1 enhancer binding protein 1	6.69E-06	No	No	Yes	No	No	Yes	No
51291	GMIP	GEM interacting protein	6.73E-06	Yes	No	No	Yes	No	No	No
55723	ASF1B	ASF1 anti-silencing function 1 homolog B (S. cerevisiae)	6.77E-06	No	No	No	Yes	No	No	No
79961	DENND2D	DENN/MADD domain containing 2D	6.78E-06	No	No	No	Yes	No	No	No
11216	AKAP10	A kinase (PRKA) anchor protein 10	6.79E-06	Yes	No	Yes	No	No	No	No
56654	NPDC1	neural proliferation, differentiation and control, 1	6.81E-06	No	No	No	No	No	No	No
140465	MYL6B	myosin, light chain 6B, alkali, smooth muscle and non-muscle	6.84E-06	No	No	No	Yes	No	Yes	No

9528	TMEM59	transmembrane protein 59	6.85E-06	No	No	Yes	No	No	No	No
2475	FRAP1	FK506 binding protein 12-rapamycin associated protein 1	6.86E-06	No	No	No	Yes	No	No	No
10863	ADAM28	ADAM metallopeptidase domain 28	6.89E-06	Yes	No	Yes	No	No	No	No
8477	GPR65	G protein-coupled receptor 65	6.92E-06	Yes	No	Yes	No	No	No	No
29116	MYLIP	myosin regulatory light chain interacting protein	6.93E-06	Yes	No	Yes	No	No	No	No
1284	COL4A2	collagen, type IV, alpha 2	6.94E-06	No	No	No	Yes	No	No	No
401265	KLHL31	kelch-like 31 (Drosophila)	6.95E-06	No	No	Yes	No	No	No	No
6862	T	T, brachyury homolog (mouse)	6.95E-06	No	No	No	No	Yes	No	No
126626	RP11-681B1.1	hypothetical protein MGC29891	6.95E-06	NA	No	Yes	No	No	Yes	No
55294	FBXW7	F-box and WD repeat domain containing 7	7.01E-06	No	No	Yes	No	No	No	No
26519	TIMM10	translocase of inner mitochondrial membrane 10 homolog (yeast)	7.01E-06	No	No	Yes	No	No	No	No
8992	ATP6V0E1	ATPase, H+ transporting, lysosomal 9kDa, V0 subunit e1	7.02E-06	Yes	Yes	Yes	No	No	No	No
51193	ZNF639	zinc finger protein 639	7.02E-06	No	No	No	No	No	No	No
25962	KIAA1429	KIAA1429	7.03E-06	No	No	Yes	No	No	No	No
8905	AP1S2	adaptor-related protein complex 1, sigma 2 subunit	7.03E-06	Yes	Yes	Yes	No	No	Yes	Yes
2241	FER	fer (fps/fes related) tyrosine kinase	7.04E-06	No	No	No	No	Yes	No	No
9616	RNF7	ring finger protein 7	7.04E-06	No	No	Yes	No	No	No	No
2620	GAS2	growth arrest-specific 2	7.07E-06	Yes	No	No	Yes	No	No	No
64398	MPP5	membrane protein, palmitoylated 5 (MAGUK p65 subfamily member 5)	7.09E-06	No	No	No	Yes	No	No	No
8914	TIMELESS	timeless homolog (Drosophila)	7.09E-06	No	No	No	Yes	No	No	No
529	ATP6V1E1	ATPase, H+ transporting, lysosomal 31kDa, V1 subunit E1	7.12E-06	No	No	Yes	No	No	No	No
3198	HOXA1	homeobox A1	7.12E-06	No	No	Yes	No	No	No	No
84991	RBM17	RNA binding motif protein 17	7.16E-06	No	No	Yes	No	No	No	No
6237	RRAS	related RAS viral (r-ras) oncogene homolog	7.17E-06	Yes	No	Yes	No	No	No	No
58506	SCAF1	SR-related CTD-associated factor 1	7.17E-06	No	No	Yes	No	No	No	No
1641	DCX	doublecortin; lissencephaly, X-linked (doublecortin)	7.19E-06	No	No	Yes	No	No	No	No
35948	IRF2BP2	interferon regulatory factor 2 binding protein 2	7.20E-06	Yes	Yes	Yes	No	No	Yes	No
11284	PNKP	polynucleotide kinase 3'-phosphatase	7.21E-06	No	No	No	Yes	No	No	No
55584	CHRNA9	cholinergic receptor, nicotinic, alpha 9	7.21E-06	No	No	No	Yes	No	No	No
9746	CLSTN3	calyntenin 3	7.21E-06	No	No	No	Yes	No	No	No
7975	MAFK	v-maf musculoaponeurotic fibrosarcoma oncogene homolog K (avian)	7.24E-06	Yes	No	No	Yes	No	No	No
3594	IL12RB1	interleukin 12 receptor, beta 1	7.25E-06	Yes	No	No	Yes	No	No	No
638	BIK	BCL2-interacting killer (apoptosis-inducing)	7.26E-06	No	No	Yes	No	No	No	No
1820	ARID3A	AT rich interactive domain 3A (BRIGHT-like)	7.27E-06	Yes	No	No	Yes	No	No	No

23362	PSD3	pleckstrin and Sec7 domain containing 3	7.27E-06	Yes	No	No	Yes	No	No	No
9149	DYRK1B	dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 1B	7.27E-06	No	No	Yes	No	No	No	No
9328	GTF3C5	general transcription factor IIIc, polypeptide 5, 63kDa	7.29E-06	No	No	Yes	No	No	No	No
2898	GRIK2	glutamate receptor, ionotropic, kainate 2	7.40E-06	Yes	No	Yes	No	No	No	No
5501	PPP1CC	protein phosphatase 1, catalytic subunit, gamma isoform	7.40E-06	No	No	No	Yes	No	No	No
10059	DNM1L	dynamitin 1-like	7.40E-06	No	No	No	No	Yes	No	No
677819	SNORA37	small nucleolar RNA, H/ACA box 37	7.40E-06	NA	No	No	Yes	No	No	No
51533	PHF7	PHD finger protein 7	7.40E-06	No	No	Yes	No	No	No	No
7337	UBE3A	ubiquitin protein ligase E3A (human papilloma virus E6-associated protein, Angelman syndrome)	7.41E-06	Yes	No	Yes	No	No	No	No
2534	FYN	FYN oncogene related to SRC, FGR, YES	7.41E-06	No	No	Yes	No	No	Yes	No
7178	TPT1	tumor protein, translationally-controlled 1	7.43E-06	No	No	Yes	No	No	No	No
9656	MDC1	mediator of DNA damage checkpoint 1	7.43E-06	No	No	Yes	No	No	No	No
56925	LXN	latexin	7.44E-06	Yes	No	No	Yes	No	No	No
6176	RPLP1	ribosomal protein, large, P1	7.46E-06	Yes	No	Yes	No	No	No	No
55151	TMEM38B	transmembrane protein 38B	7.46E-06	Yes	Yes	No	No	No	Yes	No
400765	FLJ35409	FLJ35409 protein	7.46E-06	NA	No	Yes	No	No	No	No
896	CCND3	cyclin D3	7.48E-06	No	Yes	Yes	No	No	No	No
27239	GPR162	G protein-coupled receptor 162	7.48E-06	No	No	No	Yes	No	No	No
83990	BRIP1	BRCA1 interacting protein C-terminal helicase 1	7.50E-06	No	No	Yes	No	No	No	No
9633	MTL5	metallothionein-like 5, testis-specific (tesmin)	7.52E-06	No	No	No	Yes	No	No	No
10477	UBE2E3	ubiquitin-conjugating enzyme E2E 3 (UBC4/5 homolog, yeast)	7.57E-06	No	No	No	Yes	No	No	No
8717	TRADD	TNFRSF1A-associated via death domain	7.58E-06	Yes	No	Yes	No	No	No	No
3720	JARID2	jumonji, AT rich interactive domain 2	7.59E-06	Yes	No	Yes	No	No	No	No
7351	UCP2	uncoupling protein 2 (mitochondrial, proton carrier)	7.63E-06	No	Yes	No	Yes	No	No	No
1404	HAPLN1	hyaluronan and proteoglycan link protein 1	7.64E-06	No	No	Yes	No	No	No	No
4356	MPP3	membrane protein, palmitoylated 3 (MAGUK p55 subfamily member 3)	7.68E-06	No	No	Yes	No	No	No	No
51071	DERA	2-deoxyribose-5-phosphate aldolase homolog (C. elegans)	7.68E-06	No	No	Yes	No	No	No	No
84938	ATG4C	ATG4 autophagy related 4 homolog C (S. cerevisiae)	7.68E-06	NA	No	No	Yes	No	Yes	No
6507	SLC1A3	solute carrier family 1 (glial high affinity glutamate transporter), member 3	7.69E-06	Yes	No	Yes	No	No	No	No
51141	INSIG2	insulin induced gene 2	7.69E-06	No	No	Yes	No	No	No	No
191	AHCY	S-adenosylhomocysteine hydrolase	7.71E-06	No	No	Yes	No	No	No	No
26003	GORASP2	golgi reassembly stacking protein 2, 55kDa	7.74E-06	No	No	Yes	No	No	No	No
2693	GHSR	growth hormone secretagogue receptor	7.75E-06	No	No	Yes	No	No	No	No
3958	LGALS3	lectin, galactoside-binding, soluble, 3	7.75E-06	Yes	No	No	Yes	No	No	No

3231	HOXD1	homeobox D1	7.76E-06	No	No	No	Yes	No	No	No
129831	RBM45	RNA binding motif protein 45	7.78E-06	No	No	No	Yes	No	No	No
326343	MT1DP	metallothionein 1D (pseudogene)	7.79E-06	NA	No	No	No	Yes	No	No
144577	C12orf66	chromosome 12 open reading frame 66	7.80E-06	Yes	No	Yes	No	No	No	No
55347	ABHD10	abhydrolase domain containing 10	7.85E-06	Yes	Yes	No	No	Yes	No	No
117247	SLC16A10	solute carrier family 16, member 10 (aromatic amino acid transporter)	7.87E-06	Yes	No	Yes	No	No	No	No
8351	HIST1H3D	histone cluster 1, H3d	7.94E-06	No	No	Yes	No	No	No	No
4982	TNFRSF11B	tumor necrosis factor receptor superfamily, member 11b (osteoprotegerin)	7.95E-06	No	No	Yes	No	No	No	No
200030	NBPF11	neuroblastoma breakpoint family, member 11	8.00E-06	Yes	Yes	Yes	No	No	No	No
8527	DGKD	diacylglycerol kinase, delta 130kDa	8.03E-06	No	No	Yes	No	No	Yes	Yes
170622	COMMD6	COMM domain containing 6	8.04E-06	No	No	Yes	No	No	No	No
285782	CAGE1	cancer antigen 1	8.06E-06	No	No	Yes	No	No	No	No
51626	DYNC2L1	dynein, cytoplasmic 2, light intermediate chain 1	8.07E-06	No	No	Yes	No	No	No	No
256472	TMEM151A	transmembrane protein 151A	8.08E-06	Yes	No	Yes	No	No	No	No
10897	YIF1A	Yip1 interacting factor homolog A (S. cerevisiae)	8.08E-06	No	No	Yes	No	No	No	No
2730	GCLM	glutamate-cysteine ligase, modifier subunit	8.08E-06	No	No	No	Yes	No	Yes	No
144983	RP11-78J21.1	heterogeneous nuclear ribonucleoprotein A1-like	8.08E-06	No	No	Yes	No	No	No	No
353135	LCE1E	late cornified envelope 1E	8.09E-06	No	No	Yes	No	No	No	No
149041	RC3H1	ring finger and CCH-type zinc finger domains 1	8.11E-06	No	No	No	Yes	No	No	No
8895	CPNE3	copine III	8.13E-06	No	No	Yes	No	No	No	No
55119	PRPF38B	PRP38 pre-mRNA processing factor 38 (yeast) domain containing B	8.15E-06	No	No	Yes	No	No	No	No
84283	TMEM79	transmembrane protein 79	8.19E-06	No	Yes	No	Yes	No	Yes	No
79962	DNAJC22	DnaJ (Hsp40) homolog, subfamily C, member 22	8.19E-06	Yes	No	No	No	Yes	No	No
338761	C1QL4	complement component 1, q subcomponent-like 4	8.19E-06	NA	No	No	No	Yes	No	No
162963	ZNF610	zinc finger protein 610	8.20E-06	No	No	Yes	No	No	No	No
83607	AMMECR1L	AMME chromosomal region gene 1-like	8.20E-06	No	No	Yes	No	No	No	No
51523	CXXC5	CXXC finger 5	8.21E-06	No	No	No	No	Yes	No	No
51065	RPS27L	ribosomal protein S27-like	8.21E-06	No	No	Yes	No	No	No	No
51750	RTEL1	regulator of telomere elongation helicase 1	8.22E-06	Yes	No	No	No	No	No	No
50861	STMN3	stathmin-like 3	8.22E-06	Yes	No	No	No	No	No	No
9912	RICH2	Rho-type GTPase-activating protein RICH2	8.25E-06	No	No	Yes	No	No	No	No
7046	TGFBRI	transforming growth factor, beta receptor I (activin A receptor type II-like kinase, 53kDa)	8.32E-06	No	No	No	Yes	No	No	No
196792	FAM24B	family with sequence similarity 24, member B	8.33E-06	No	No	Yes	No	No	No	No
51251	NT5C3	5'-nucleotidase, cytosolic III	8.33E-06	Yes	No	Yes	No	No	No	No

4049	LTA	lymphotoxin alpha (TNF superfamily, member 1)	8.36E-06	No	No	No	Yes	No	No	No
9953	HS3ST3B1	heparan sulfate (glucosamine) 3-O-sulfotransferase 3B1	8.38E-06	Yes	No	No	No	Yes	No	No
51098	IFT52	intraflagellar transport 52 homolog (Chlamydomonas)	8.40E-06	No	No	Yes	No	No	No	No
2911	GRM1	glutamate receptor, metabotropic 1	8.40E-06	No	No	Yes	No	No	No	No
51699	VPS29	vacuolar protein sorting 29 homolog (S. cerevisiae)	8.40E-06	No	No	Yes	No	No	Yes	No
677822	SNORA40	small nucleolar RNA, H/ACA box 40	8.41E-06	NA	No	Yes	No	No	No	No
9168	TMSB10	thymosin beta 10	8.45E-06	No	No	No	Yes	No	No	No
517	ATP5G2	ATP synthase, H+ transporting, mitochondrial F0 complex, subunit C2 (subunit 9)	8.52E-06	No	No	No	Yes	No	No	No
133383	C5orf35	chromosome 5 open reading frame 35	8.55E-06	No	No	Yes	No	No	No	No
23479	ISCU	iron-sulfur cluster scaffold homolog (E. coli)	8.58E-06	Yes	No	No	Yes	No	No	No
9733	SART3	squamous cell carcinoma antigen recognized by T cells 3	8.58E-06	No	No	No	Yes	No	No	No
65981	CAPRIN2	caprin family member 2	8.60E-06	Yes	No	Yes	No	No	Yes	No
92806	MGC16385	hypothetical protein MGC16385	8.62E-06	No	No	Yes	No	No	No	No
391109	OR10K1	olfactory receptor, family 10, subfamily K, member 1	8.62E-06	NA	No	Yes	No	No	No	No
29941	PKN3	protein kinase N3	8.63E-06	No	No	No	No	No	No	No
4907	NT5E	5'-nucleotidase, ecto (CD73)	8.65E-06	Yes	Yes	Yes	No	No	No	No
167359	MGC42105	hypothetical protein MGC42105	8.67E-06	No	No	Yes	No	No	No	No
79666	PLEKHF2	pleckstrin homology domain containing, family F (with FYVE domain) member 2	8.68E-06	No	Yes	Yes	No	No	Yes	No
7090	TLE3	transducin-like enhancer of split 3 (E(sp1) homolog, Drosophila)	8.68E-06	Yes	No	Yes	No	No	No	No
10220	GDF11	growth differentiation factor 11	8.70E-06	Yes	No	Yes	No	No	No	No
967	CD63	CD63 molecule	8.70E-06	Yes	No	Yes	No	No	No	No
54840	APTX	aprataxin	8.70E-06	No	No	Yes	No	No	No	No
3842	TNPO1	transportin 1	8.73E-06	No	No	No	Yes	No	No	No
9675	KIAA0406	KIAA0406	8.78E-06	No	No	No	No	No	No	No
92737	DNER	delta/notch-like EGF repeat containing	8.79E-06	No	No	Yes	No	No	No	No
87178	PNPT1	polynucleotide nucleotidyltransferase 1	8.79E-06	No	No	Yes	No	No	No	No
51157	ZNF580	zinc finger protein 580	8.80E-06	No	No	No	No	Yes	Yes	No
4267	CD99	CD99 molecule	8.81E-06	Yes	No	Yes	No	No	No	No
8022	LHX3	LIM homeobox 3	8.82E-06	No	Yes	No	Yes	No	No	No
23411	SIRT1	sirtuin (silent mating type information regulation 2 homolog) 1 (S. cerevisiae)	8.82E-06	No	No	Yes	No	No	No	No
692223	SNORD97	small nucleolar RNA, C/D box 97	8.82E-06	NA	No	Yes	No	No	No	No
219902	TMEM136	transmembrane protein 136	8.83E-06	Yes	No	No	Yes	No	No	No
5528	PPP2R5D	protein phosphatase 2, regulatory subunit B', delta isoform	8.83E-06	No	No	Yes	No	No	No	No
5190	PEX6	peroxisomal biogenesis factor 6	8.83E-06	No	No	Yes	No	No	No	No

6005	RHAG	Rh-associated glycoprotein	8.85E-06	Yes	No	Yes	No	No	No	No
11221	DUSP10	dual specificity phosphatase 10	8.85E-06	No	No	Yes	No	No	No	No
379	ARL4D	ADP-ribosylation factor-like 4D	8.86E-06	No	No	Yes	No	No	No	No
84250	ANKRD32	ankyrin repeat domain 32	8.87E-06	No	No	Yes	No	No	No	No
54971	BANP	BTG3 associated nuclear protein	8.90E-06	No	No	Yes	No	No	No	No
10247	HRSP12	heat-responsive protein 12	8.91E-06	No	No	Yes	No	No	Yes	No
147179	WIPF2	WAS/WASL interacting protein family, member 2	8.94E-06	Yes	No	Yes	No	No	No	No
23161	SNX13	sorting nexin 13	8.97E-06	No	No	No	Yes	No	No	No
23365	ARHGEF12	Rho guanine nucleotide exchange factor (GEF) 12	8.98E-06	No	No	Yes	No	No	No	No
126637	TCHHL1	trichohyalin-like 1	9.07E-06	NA	No	Yes	No	No	No	No
22823	MTF2	metal response element binding transcription factor 2	9.07E-06	No	No	Yes	No	No	No	No
1062	CENPE	centromere protein E, 312kDa	9.15E-06	No	No	Yes	No	No	Yes	No
65057	ACD	adrenocortical dysplasia homolog (mouse)	9.16E-06	No	No	No	Yes	No	No	No
51131	PHF11	PHD finger protein 11	9.20E-06	Yes	No	Yes	No	No	No	No
1647	GADD45A	growth arrest and DNA-damage-inducible, alpha	9.24E-06	No	No	Yes	No	No	No	No
7385	UQCRC2	ubiquinol-cytochrome c reductase core protein II	9.25E-06	No	No	Yes	No	No	No	No
201633	VSTM3	V-set and transmembrane domain containing 3	9.26E-06	No	No	Yes	No	No	No	No
117155	CATSPER2	cation channel, sperm associated 2	9.26E-06	Yes	No	Yes	No	No	No	No
3012	HIST1H2AE	histone cluster 1, H2ae	9.29E-06	No	No	Yes	No	No	No	No
9735	KNTC1	kinetochore associated 1	9.32E-06	No	No	Yes	No	No	Yes	No
25879	WDSOF1	WD repeats and SOF1 domain containing	9.33E-06	Yes	No	Yes	No	No	Yes	No
10285	SMNDC1	survival motor neuron domain containing 1	9.50E-06	No	No	No	No	No	No	No
57567	ZNF319	zinc finger protein 319	9.57E-06	No	No	No	Yes	No	No	No
340273	ABCB5	ATP-binding cassette, sub-family B (MDR/TAP), member 5	9.59E-06	Yes	No	Yes	No	No	No	No
1075	CTSC	cathepsin C	9.60E-06	Yes	No	Yes	No	No	No	No
6822	SULT2A1	sulfotransferase family, cytosolic, 2A, dehydroepiandrosterone (DHEA)-preferring, member 1	9.63E-06	No	No	No	No	Yes	No	No
81631	MAP1LC3B	microtubule-associated protein 1 light chain 3 beta	9.64E-06	No	No	Yes	No	No	No	No
79791	FBXO31	F-box protein 31	9.64E-06	No	No	Yes	No	No	No	No
3092	HIP1	huntingtin interacting protein 1	9.67E-06	No	No	No	Yes	No	No	No
11025	LILRB3	leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 3	9.68E-06	No	No	No	No	No	No	No
26276	VPS33B	vacuolar protein sorting 33 homolog B (yeast)	9.71E-06	Yes	No	Yes	No	No	Yes	No
22850	ADNP2	ADNP homeobox 2	9.72E-06	No	No	Yes	No	No	No	No
8720	MBTPS1	membrane-bound transcription factor peptidase, site 1	9.72E-06	No	No	No	Yes	No	No	No
10940	POP1	processing of precursor 1, ribonuclease P/MRP subunit (S. cerevisiae)	9.72E-06	NA	No	No	Yes	No	No	No

23197	UBXD8	UBX domain containing 8	9.72E-06	No	No	No	Yes	No	No	No
10513	APPBP2	amyloid beta precursor protein (cytoplasmic tail) binding protein 2	9.76E-06	Yes	No	Yes	No	No	No	No
4005	LMO2	LIM domain only 2 (rhombotin-like 1)	9.77E-06	No	Yes	No	Yes	No	No	No
10975	UOCR	ubiquinol-cytochrome c reductase, 6.4kDa subunit	9.81E-06	No	No	Yes	No	No	Yes	No
7773	ZNF230	zinc finger protein 230	9.82E-06	No	No	No	Yes	No	Yes	No
27107	ZBTB11	zinc finger and BTB domain containing 11	9.82E-06	No	No	Yes	No	No	No	No
116540	MRPL53	mitochondrial ribosomal protein L53	9.83E-06	No	No	Yes	No	No	No	No
619565	SNORA52	small nucleolar RNA, H/ACA box 52	9.85E-06	NA	No	No	No	Yes	No	No
51058	ZNF691	zinc finger protein 691	9.86E-06	No	No	Yes	No	No	No	No
57325	CSRP2BP	CSRP2 binding protein	9.88E-06	No	No	No	No	No	No	No
8452	CUL3	culin 3	9.91E-06	No	Yes	Yes	No	No	No	No
10092	ARPC5	actin related protein 2/3 complex, subunit 5, 16kDa	9.94E-06	No	No	Yes	No	No	Yes	No
26017	FAM32A	family with sequence similarity 32, member A	9.95E-06	No	No	No	Yes	No	No	No
8812	CCNK	cyclin K	9.95E-06	Yes	No	Yes	No	No	No	No
8445	DYRK2	dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 2	9.95E-06	Yes	No	No	No	No	No	No
3615	IMPDH2	IMP (inosine monophosphate) dehydrogenase 2	9.96E-06	No	No	Yes	No	No	No	No
10256	CNKSR1	connector enhancer of kinase suppressor of Ras 1	9.97E-06	No	No	No	Yes	No	No	No
5885	RAD21	RAD21 homolog (S. pombe)	9.98E-06	No	No	Yes	No	No	No	No
55907	CMAS	cytidine monophosphate N-acetylneuraminic acid synthetase	9.99E-06	No	No	Yes	No	No	No	No
55269	PSPC1	paraspeckle component 1	9.99E-06	No	No	Yes	No	No	No	No
85007	AGXT2L2	alanine-glyoxylate aminotransferase 2-like 2	1.00E-05	No	No	No	Yes	No	No	No
7726	TRIM26	tripartite motif-containing 26	1.00E-05	No	No	No	Yes	No	No	No
163496	DENND1B	DENND1B domain containing 1B	1.00E-05	No	No	Yes	No	No	No	No
84690	SPATA22	spermatogenesis associated 22	1.00E-05	Yes	No	Yes	No	No	No	No
443	ASPA	aspartoacylase (Canavan disease)	1.00E-05	Yes	No	Yes	No	No	No	No
10038	PARP2	poly (ADP-ribose) polymerase family, member 2	1.00E-05	No	No	Yes	No	No	No	No
949	SCARB1	scavenger receptor class B, member 1	1.00E-05	No	Yes	No	Yes	No	No	No
7156	TOP3A	topoisomerase (DNA) III alpha	1.01E-05	No	No	Yes	No	No	No	No
8545	CGGBP1	CGG triplet repeat binding protein 1	1.02E-05	No	No	Yes	No	No	Yes	No
3791	KDR	kinase insert domain receptor (a type III receptor tyrosine kinase)	1.02E-05	No	No	Yes	No	No	No	No
5210	PFKFB4	6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase 4	1.02E-05	No	No	Yes	No	No	No	No
4863	NPAT	nuclear protein, ataxia-telangiectasia locus	1.03E-05	No	No	Yes	No	No	Yes	No
2535	FZD2	frizzled homolog 2 (Drosophila)	1.03E-05	No	No	No	No	No	No	No
391712	TRIM61	tripartite motif-containing 61	1.03E-05	No	No	No	No	No	No	No

54472	TOLLIP	toll interacting protein	1.03E-05	No	No	No	No	No	No	No
84081	CCDC55	coiled-coil domain containing 55	1.03E-05	No	Yes	Yes	No	No	Yes	No
10971	YWHAQ	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, theta polypeptide	1.04E-05	No	No	No	No	Yes	No	No
84085	FBXO30	F-box protein 30	1.04E-05	No	No	Yes	No	No	No	No
55353	LAPTM4B	lysosomal associated protein transmembrane 4 beta	1.04E-05	No	No	No	Yes	No	No	No
171023	ASXL1	additional sex combs like 1 (Drosophila)	1.05E-05	No	Yes	Yes	No	No	Yes	No
120400	FAM55A	family with sequence similarity 55, member A	1.05E-05	No	No	Yes	No	No	No	No
84329	HVCN1	hydrogen voltage-gated channel 1	1.05E-05	Yes	No	No	Yes	No	No	No
4643	MYO1E	myosin IE	1.05E-05	No	Yes	No	Yes	No	No	No
79954	NOL10	nucleolar protein 10	1.05E-05	Yes	No	No	Yes	No	No	No
54918	CMTM6	CKLF-like MARVEL transmembrane domain containing 6	1.05E-05	Yes	No	No	No	Yes	No	No
6993	DYNLT1	dynein, light chain, Tctex-type 1	1.05E-05	No	No	Yes	No	No	No	No
55293	UEVLD	UEV and lactate/malate dehydrogenase domains	1.05E-05	No	No	Yes	No	No	No	No
9334	B4GALT5	UDP-Gal:beta.GlcNAc beta 1,4-galactosyltransferase, polypeptide 5	1.05E-05	No	No	No	Yes	No	No	No
11249	NXPH2	neurexophilin 2	1.06E-05	No	No	No	Yes	No	No	No
125058	TBC1D16	TBC1 domain family, member 16	1.06E-05	Yes	No	Yes	No	No	No	No
149428	BNIP1	BCL2/adenovirus E1B 19kD interacting protein like	1.06E-05	No	No	Yes	No	No	No	No
51088	KLHL5	kelch-like 5 (Drosophila)	1.06E-05	No	Yes	No	Yes	No	No	No
8099	CDK2AP1	CDK2-associated protein 1	1.06E-05	No	No	No	No	No	No	No
84276	NICN1	nicotin 1	1.07E-05	No	No	No	Yes	No	No	No
8887	TAX1BP1	Tax1 (human T-cell leukemia virus type I) binding protein 1	1.07E-05	No	No	Yes	No	No	No	No
57584	ARHGAP21	Rho GTPase activating protein 21	1.07E-05	No	No	No	Yes	No	No	No
79086	C19orf42	chromosome 19 open reading frame 42	1.08E-05	No	No	Yes	No	No	No	No
79041	TMEM38A	transmembrane protein 38A	1.08E-05	NA	No	No	Yes	No	No	No
8322	FZD4	frizzled homolog 4 (Drosophila)	1.08E-05	Yes	Yes	Yes	No	No	No	No
122046	C13orf26	chromosome 13 open reading frame 26	1.08E-05	No	No	Yes	No	No	No	No
9236	CCPG1	cell cycle progression 1	1.08E-05	Yes	No	Yes	No	No	No	No
84717	HDGF2	hepatoma-derived growth factor-related protein 2	1.08E-05	No	No	No	No	No	No	No
9969	MED13	mediator complex subunit 13	1.08E-05	Yes	No	Yes	No	No	No	No
3428	IFI16	interferon, gamma-inducible protein 16	1.10E-05	Yes	Yes	No	No	Yes	No	No
3383	ICAM1	intercellular adhesion molecule 1 (CD54), human rhinovirus receptor	1.10E-05	Yes	No	No	Yes	No	Yes	No
25948	KBTBD2	kelch repeat and BTB (POZ) domain containing 2	1.11E-05	No	No	Yes	No	No	Yes	Yes
143686	SESN3	sesttin 3	1.11E-05	Yes	No	Yes	No	No	No	No
122830	NAT12	N-acetyltransferase 12	1.11E-05	No	No	Yes	No	No	No	No

8820	HESX1	HESX homeobox 1	1.11E-05	Yes	No	Yes	No	No	No	No
84941	HSH2D	hematopoietic SH2 domain containing	1.11E-05	Yes	No	No	Yes	No	No	No
84073	MYCBPAP	MYCBP associated protein	1.12E-05	No	No	No	Yes	No	No	No
5699	PSMB10	proteasome (prosome, macropain) subunit, beta type, 10	1.12E-05	No	No	No	Yes	No	Yes	No
10243	GPHN	gephyrin	1.12E-05	No	No	Yes	No	No	No	No
55764	IFT122	intraflagellar transport 122 homolog (Chlamydomonas)	1.12E-05	No	Yes	Yes	No	No	No	No
60681	FKBP10	FK506 binding protein 10, 65 kDa	1.12E-05	Yes	No	No	Yes	No	No	No
10609	SC65	synaptonemal complex protein SC65	1.12E-05	No	No	No	Yes	No	No	No
8851	CDK5R1	cyclin-dependent kinase 5, regulatory subunit 1 (p35)	1.13E-05	Yes	No	No	No	No	No	No
6404	SELPLG	selectin P ligand	1.13E-05	Yes	No	Yes	No	No	Yes	No
6252	RTN1	reticulon 1	1.13E-05	No	No	Yes	No	No	No	No
677797	SNORA7B	small nucleolar RNA, H/ACA box 7B	1.13E-05	NA	No	Yes	No	No	No	No
5049	PAFAH1B2	platelet-activating factor acetylhydrolase, isoform Ib, beta subunit 30kDa	1.14E-05	No	No	Yes	No	No	No	No
154197	PNLDC1	poly(A)-specific ribonuclease (PARN)-like domain containing 1	1.14E-05	Yes	No	Yes	No	No	No	No
56943	ENY2	enhancer of yellow 2 homolog (Drosophila)	1.14E-05	No	No	Yes	No	No	No	No
5055	SERPINB2	serpin peptidase inhibitor, clade B (ovalbumin), member 2	1.14E-05	No	No	Yes	No	No	No	No
115948	CDC151	coiled-coil domain containing 151	1.14E-05	No	No	No	Yes	No	No	No
5589	PRKCSH	protein kinase C substrate 80K-H	1.14E-05	No	No	No	Yes	No	No	No
84942	WDR73	WD repeat domain 73	1.14E-05	Yes	No	No	Yes	No	Yes	No
93986	FOXP2	forkhead box P2	1.15E-05	Yes	No	Yes	No	No	No	No
9730	VPRBP	Vpr (HIV-1) binding protein	1.15E-05	No	No	Yes	No	No	No	No
5132	PDC	phosducin	1.15E-05	No	No	Yes	No	No	No	No
9678	PHF14	PHD finger protein 14	1.16E-05	No	No	Yes	No	No	No	No
7056	THBD	thrombomodulin	1.16E-05	No	No	Yes	No	No	No	No
25851	DKFZP434B0335	DKFZP434B0335 protein	1.17E-05	Yes	No	No	Yes	No	Yes	No
158358	KIAA2026	KIAA2026	1.17E-05	No	No	Yes	No	No	No	No
4593	MUSK	muscle, skeletal, receptor tyrosine kinase	1.18E-05	No	No	Yes	No	No	No	No
55145	THAP1	THAP domain containing, apoptosis associated protein 1	1.18E-05	No	No	Yes	No	No	No	No
7772	ZNF229	zinc finger protein 229	1.18E-05	No	No	Yes	No	No	No	No
1107	CHD3	chromodomain helicase DNA binding protein 3	1.18E-05	Yes	Yes	No	No	Yes	No	No
1394	CRHR1	corticotropin releasing hormone receptor 1	1.18E-05	Yes	No	No	No	No	No	No
58986	TMEM8	transmembrane protein 8 (five membrane-spanning domains)	1.19E-05	No	No	No	Yes	No	Yes	No
1738	DLD	dihydropyrimidine dehydrogenase	1.19E-05	No	No	No	No	Yes	No	No
57862	ZNF410	zinc finger protein 410	1.19E-05	No	No	Yes	No	No	No	No

26009	ZZZ3	zinc finger, ZZ-type containing 3	1.20E-05	No	No	Yes	No	No	No	No
9252	RPS6KA5	ribosomal protein S6 kinase, 90kDa, polypeptide 5	1.20E-05	Yes	Yes	Yes	No	No	No	No
51444	RNF138	ring finger protein 138	1.20E-05	No	No	Yes	No	No	No	No
29117	BRD7	bromodomain containing 7	1.20E-05	No	No	Yes	No	No	No	No
221154	EFHA1	EF-hand domain family, member A1	1.20E-05	No	No	Yes	No	No	No	No
25803	SPDEF	SAM pointed domain containing ets transcription factor	1.21E-05	Yes	No	No	No	Yes	No	No
153	ADRB1	adrenergic, beta-1-, receptor	1.21E-05	No	No	No	Yes	No	No	No
5309	PITX3	paired-like homeodomain 3	1.21E-05	No	No	Yes	No	No	No	No
51362	CDC40	cell division cycle 40 homolog (S. cerevisiae)	1.21E-05	No	No	Yes	No	No	No	No
8936	WASF1	WAS protein family, member 1	1.21E-05	No	No	Yes	No	No	No	No
91703	ACY3	aspartoacylase (aminocyclase) 3	1.21E-05	No	No	Yes	No	No	No	No
10912	GADD45G	growth arrest and DNA-damage-inducible, gamma	1.21E-05	No	No	Yes	No	No	No	No
51542	VPS54	vacuolar protein sorting 54 homolog (S. cerevisiae)	1.22E-05	No	No	Yes	No	No	No	No
23438	HARS2	histidyl-tRNA synthetase 2, mitochondrial (putative)	1.22E-05	Yes	No	Yes	No	No	No	No
5635	PRPSAP1	phosphoribosyl pyrophosphate synthetase-associated protein 1	1.22E-05	No	No	Yes	No	No	No	No
84759	PCGF1	polycomb group ring finger 1	1.22E-05	No	No	No	Yes	No	No	No
81875	ISG20L2	interferon stimulated exonuclease gene 20kDa-like 2	1.23E-05	Yes	No	No	No	Yes	No	No
2869	GRK5	G protein-coupled receptor kinase 5	1.23E-05	Yes	No	Yes	No	No	No	No
10325	RRAGB	Ras-related GTP binding B	1.23E-05	No	No	No	Yes	No	Yes	Yes
5424	POLD1	polymerase (DNA directed), delta 1, catalytic subunit 125kDa	1.23E-05	No	No	Yes	No	No	No	No
8777	MPDZ	multiple PDZ domain protein	1.24E-05	No	No	Yes	No	No	No	No
6006	RHCE	Rh blood group, CcEe antigens	1.24E-05	Yes	No	Yes	No	No	No	No
200162	SPAG17	sperm associated antigen 17	1.24E-05	Yes	No	Yes	No	No	No	No
4811	NID1	nidogen 1	1.25E-05	Yes	No	Yes	No	No	No	No
1454	CSNK1E	casein kinase 1, epsilon	1.25E-05	No	No	Yes	No	No	No	No
200014	CC2D1B	coiled-coil and C2 domain containing 1B	1.25E-05	Yes	No	No	No	No	No	No
123811	C16orf63	chromosome 16 open reading frame 63	1.26E-05	No	No	Yes	No	No	No	No
8216	LZTR1	leucine-zipper-like transcription regulator 1	1.26E-05	No	No	No	Yes	No	No	No
115752	DIS3L	DIS3 mitotic control homolog (S. cerevisiae)-like	1.26E-05	No	Yes	Yes	No	No	No	No
5745	PTH1R	parathyroid hormone receptor 1	1.26E-05	No	No	Yes	No	No	No	No
5036	PA2G4	proliferation-associated 2G4, 38kDa	1.26E-05	No	No	No	Yes	No	No	No
196335	OR56B4	olfactory receptor, family 56, subfamily B, member 4	1.27E-05	NA	No	No	Yes	No	No	No
9772	KIAA0195	KIAA0195	1.27E-05	No	No	Yes	No	No	No	No
79135	APOO	apolipoprotein O	1.27E-05	No	No	Yes	No	No	No	No

3949	LDLR	low density lipoprotein receptor (familial hypercholesterolemia)	1.27E-05	No	No	No	Yes	No	Yes	No
3622	ING2	inhibitor of growth family, member 2	1.28E-05	No	No	No	No	No	No	No
84722	PSRC1	proline/serine-rich coiled-coil 1	1.28E-05	No	No	No	No	Yes	No	No
151295	SLC23A3	solute carrier family 23 (nucleobase transporters), member 3	1.29E-05	No	No	No	Yes	No	No	No
2188	FANCF	Fanconi anemia, complementation group F	1.29E-05	No	No	Yes	No	No	No	No
6772	STAT1	signal transducer and activator of transcription 1, 91kDa	1.29E-05	Yes	No	Yes	No	No	No	No
53829	P2RY13	purinergic receptor P2Y, G-protein coupled, 13	1.29E-05	Yes	No	Yes	No	No	No	No
7096	TLR1	tolllike receptor 1	1.29E-05	Yes	No	No	Yes	No	Yes	Yes
153733	CCDC112	coiled-coil domain containing 112	1.29E-05	NA	No	Yes	No	No	No	No
79856	SNX22	sorting nexin 22	1.30E-05	No	No	No	Yes	No	No	No
203859	TMEM16E	transmembrane protein 16E	1.31E-05	NA	No	No	Yes	No	No	No
2587	GALR1	galanin receptor 1	1.31E-05	No	No	Yes	No	No	No	No
3189	HNRNPH3	heterogeneous nuclear ribonucleoprotein H3 (2H9)	1.31E-05	No	Yes	Yes	No	No	No	No
55729	ATF7IP	activating transcription factor 7 interacting protein	1.31E-05	Yes	No	Yes	No	No	Yes	No
89778	SERPINB11	serpin peptidase inhibitor, clade B (ovalbumin), member 11	1.31E-05	No	No	Yes	No	No	No	No
56850	GRIPAP1	GRIP1 associated protein 1	1.32E-05	No	No	Yes	No	No	No	No
64768	IPPK	inositol 1,3,4,5,6-pentakisphosphate 2-kinase	1.32E-05	NA	No	No	Yes	No	No	No
10152	ABI2	abl Interactor 2	1.32E-05	Yes	No	No	Yes	No	No	No
3799	KIF5B	kinesin family member 5B	1.32E-05	No	No	Yes	No	No	No	No
390058	OR51B6	olfactory receptor, family 51, subfamily B, member 6	1.33E-05	No	No	Yes	No	No	No	No
282763	OR51B5	olfactory receptor, family 51, subfamily B, member 5	1.33E-05	No	No	Yes	No	No	No	No
79136	LY6G6E	lymphocyte antigen 6 complex, locus G6E	1.33E-05	No	No	No	Yes	No	No	No
144193	AMDHD1	amidohydrolase domain containing 1	1.34E-05	Yes	No	Yes	No	No	No	No
966	CD59	CD59 molecule, complement regulatory protein	1.34E-05	No	No	No	Yes	No	No	No
84769	FKSG24	hypothetical protein MGC12972	1.34E-05	No	No	No	No	Yes	No	No
55346	TCP11L1	t-complex 11 (mouse)-like 1	1.35E-05	No	No	Yes	No	No	No	No
64145	ZFYVE20	zinc finger, FYVE domain containing 20	1.35E-05	No	No	No	No	Yes	No	No
7007	TECTA	tectorin alpha	1.36E-05	No	No	Yes	No	No	No	No
140459	ASB6	ankyrin repeat and SOCS box-containing 6	1.36E-05	No	No	No	No	No	No	No
29933	GPR132	G protein-coupled receptor 132	1.36E-05	Yes	No	No	Yes	No	No	No
123036	TC2N	tandem C2 domains, nuclear	1.36E-05	No	No	Yes	No	No	No	No
124637	CYB5D1	cytochrome b5 domain containing 1	1.37E-05	No	No	Yes	No	No	Yes	No
2100	ESR2	estrogen receptor 2 (ER beta)	1.37E-05	Yes	No	Yes	No	No	No	No
752	FMNL1	formin-like 1	1.38E-05	Yes	No	No	Yes	No	No	No

13804	OR13C4	olfactory receptor, family 13, subfamily C, member 4	1.38E-05	NA	No	No	Yes	No	No	No
5631	PRPS1	phosphoribosyl pyrophosphate synthetase 1	1.38E-05	No	No	Yes	No	No	No	No
1635	DCTD	dCMP deaminase	1.38E-05	Yes	Yes	Yes	No	No	No	No
9744	CENTB1	centaurin, beta 1	1.38E-05	Yes	No	Yes	No	No	No	No
84461	KIAA1787	KIAA1787 protein	1.38E-05	No	No	Yes	No	No	No	No
400223	C14orf181	chromosome 14 open reading frame 181	1.38E-05	No	No	Yes	No	No	No	No
10629	TAF6L	TAF6-like RNA polymerase II, p300/CBP-associated factor (PCAF)-associated factor, 65kDa	1.39E-05	Yes	No	No	No	Yes	No	No
9282	MED14	mediator complex subunit 14	1.39E-05	Yes	No	Yes	No	No	No	No
9495	AKAP5	A kinase (PRKA) anchor protein 5	1.39E-05	Yes	No	Yes	No	No	No	No
64399	HHIP	hedgehog interacting protein	1.39E-05	Yes	No	Yes	No	No	No	No
283232	TMEM80	transmembrane protein 80	1.39E-05	No	No	No	Yes	No	No	No
9355	LHX2	LIM homeobox 2	1.41E-05	Yes	No	No	Yes	No	No	No
150696	PROM2	prominin 2	1.42E-05	No	No	No	Yes	No	No	No
1281	COL3A1	collagen, type III, alpha 1	1.42E-05	Yes	No	Yes	No	No	No	No
29890	RBM15B	RNA binding motif protein 15B	1.42E-05	No	No	No	No	No	No	No
4212	MEIS2	Meis homeobox 2	1.42E-05	Yes	No	No	Yes	No	No	No
81	ACTN4	actinin, alpha 4	1.42E-05	Yes	No	No	Yes	No	No	No
346547	FLJ42291	hypothetical LOC346547	1.42E-05	Yes	No	Yes	No	No	No	No
6354	CCL7	chemokine (C-C motif) ligand 7	1.43E-05	No	No	No	Yes	No	No	No
8021	NUP214	nucleoporin 214kDa	1.43E-05	No	No	Yes	No	No	No	No
5573	PRKAR1A	protein kinase, cAMP-dependent, regulatory, type I, alpha (tissue specific extinguisher 1)	1.44E-05	No	No	Yes	No	No	Yes	No
126328	NDUFA11	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 11, 14.7kDa	1.44E-05	No	No	No	Yes	No	Yes	No
27092	CACNG4	calcium channel, voltage-dependent, gamma subunit 4	1.44E-05	No	No	No	No	Yes	No	No
55659	ZNF416	zinc finger protein 416	1.45E-05	No	No	No	No	No	No	No
144809	C13orf30	chromosome 13 open reading frame 30	1.45E-05	Yes	No	No	Yes	No	No	No
51022	GLRX2	glutaredoxin 2	1.45E-05	No	No	No	Yes	No	No	No
3630	INS	insulin	1.45E-05	No	No	Yes	No	No	No	No
1317	SLC31A1	solute carrier family 31 (copper transporters), member 1	1.45E-05	No	No	No	No	Yes	Yes	No
10206	TRIM13	tripartite motif-containing 13	1.45E-05	Yes	No	Yes	No	No	No	No
25804	LSM4	LSM4 homolog, U6 small nuclear RNA associated (S. cerevisiae)	1.45E-05	No	No	Yes	No	No	Yes	No
26578	OSTF1	osteoclast stimulating factor 1	1.45E-05	Yes	No	Yes	No	No	No	No
5170	PDPK1	3-phosphoinositide dependent protein kinase-1	1.46E-05	No	No	No	Yes	No	No	No
55578	FAM48A	family with sequence similarity 48, member A	1.46E-05	Yes	No	Yes	No	No	No	No
51320	MEX3C	mex-3 homolog C (C. elegans)	1.47E-05	No	No	Yes	No	No	No	No

83443	SF3B5	splicing factor 3b, subunit 5, 10kDa	1.47E-05	No	No	No	Yes	No	No	No
65991	FUNDC2	FUN14 domain containing 2	1.47E-05	No	No	Yes	No	No	No	No
409	ARRB2	arrestin, beta 2	1.47E-05	Yes	No	Yes	No	No	No	No
27043	PELP1	proline, glutamate and leucine rich protein 1	1.47E-05	No	No	Yes	No	No	No	No
23136	EPB41L3	erythrocyte membrane protein band 4.1-like 3	1.47E-05	No	No	No	No	No	No	No
2069	ERCC2	excision repair cross-complementing rodent repair deficiency, complementation group 2 (xeroderma pigmentosum D)	1.48E-05	No	No	Yes	No	No	No	No
1001	CDH3	cadherin 3, type 1, P-cadherin (placental)	1.48E-05	Yes	No	No	Yes	No	No	No
25778	RIPK5	receptor interacting protein kinase 5	1.48E-05	No	No	Yes	No	No	No	No
80856	KIAA1715	KIAA1715	1.49E-05	No	No	Yes	No	No	No	No
390142	OR5D13	olfactory receptor, family 5, subfamily D, member 13	1.49E-05	NA	No	No	Yes	No	No	No
657	BMPRI1A	bone morphogenetic protein receptor, type IA	1.50E-05	No	No	Yes	No	No	No	No
23556	PIGN	phosphatidylinositol glycan anchor biosynthesis, class N	1.50E-05	No	No	No	No	No	No	No
162333	MARCH10	membrane-associated ring finger (C3HC4) 10	1.50E-05	No	No	Yes	No	No	No	No
91663	MYADM	myeloid-associated differentiation marker	1.50E-05	Yes	No	No	No	Yes	No	No
29094	HSPC159	galectin-related protein	1.51E-05	No	No	Yes	No	No	No	No
333926	PPM1J	protein phosphatase 1J (PP2C domain containing)	1.51E-05	No	No	No	No	No	No	No
113828	FAM83F	family with sequence similarity 83, member F	1.52E-05	No	No	Yes	No	No	No	No
92558	CCDC64	coiled-coil domain containing 64	1.52E-05	No	No	Yes	No	No	No	No
51228	GLTP	glycolipid transfer protein	1.52E-05	No	No	No	Yes	No	No	No
4783	NFIL3	nuclear factor, interleukin 3 regulated	1.53E-05	Yes	No	No	Yes	No	No	No
50619	DEF6	differentially expressed in FDCP 6 homolog (mouse)	1.53E-05	Yes	No	No	Yes	No	No	No
54926	UBE2R2	ubiquitin-conjugating enzyme E2R 2	1.53E-05	No	No	No	Yes	No	No	No
6210	RPS15A	ribosomal protein S15a	1.53E-05	No	No	No	Yes	No	No	No
5241	PGR	progesterone receptor	1.53E-05	No	No	Yes	No	No	No	No
10943	MSL3L1	male-specific lethal 3-like 1 (Drosophila)	1.53E-05	Yes	No	Yes	No	No	No	No
253558	LYCAT	lysocardiolipin acyltransferase	1.54E-05	No	No	No	Yes	No	No	No
146664	MGAT5B	mannosyl (alpha-1,6)-glycoprotein beta-1,6-N-acetyl-glucosaminyltransferase, isozyme B	1.55E-05	No	No	No	No	No	No	No
138883	OR1N1	olfactory receptor, family 1, subfamily N, member 1	1.55E-05	NA	No	Yes	No	No	No	No
90007	MIDN	midnolin	1.55E-05	Yes	No	Yes	No	No	No	No
340075	ARSI	arylsulfatase family, member I	1.56E-05	NA	No	No	Yes	No	No	No
92799	SHKBP1	SHKBP1 binding protein 1	1.56E-05	No	No	Yes	No	No	No	No
26256	CABYR	calcium binding tyrosine-(Y)-phosphorylation regulated	1.57E-05	Yes	No	Yes	No	No	No	No
10057	ABCC5	ATP-binding cassette, sub-family C (CFTR/MRP), member 5	1.57E-05	Yes	No	No	Yes	No	No	No
56922	MCCC1	methylcrotonyl-Coenzyme A carboxylase 1 (alpha)	1.58E-05	No	No	No	Yes	No	No	No

286451	YIPF6	Yip1 domain family, member 6	1.58E-05	No	No	No	Yes	No	No	No
6609	SMPD1	sphingomyelin phosphodiesterase 1, acid lysosomal	1.58E-05	Yes	No	Yes	No	No	No	No
134637	ADAT2	adenosine deaminase, tRNA-specific 2, TAD2 homolog (S. cerevisiae)	1.59E-05	Yes	No	No	Yes	No	Yes	No
8504	PEX3	peroxisomal biogenesis factor 3	1.59E-05	No	No	Yes	No	No	Yes	No
957	ENTPD5	ectonucleoside triphosphate diphosphohydrolase 5	1.59E-05	No	No	Yes	No	No	No	No
9586	CREB5	cAMP responsive element binding protein 5	1.60E-05	No	No	No	No	No	No	No
23385	NCSTN	nicastatin	1.60E-05	No	No	Yes	No	No	No	No
84632	AFAP1L2	actin filament associated protein 1-like 2	1.60E-05	Yes	No	Yes	No	No	No	No
9910	RABGAP1L	RAB GTPase activating protein 1-like	1.61E-05	No	Yes	Yes	No	No	No	No
57092	PCNP	PEST proteolytic signal containing nuclear protein	1.61E-05	No	No	Yes	No	No	Yes	No
29978	UBQLN2	ubiquilin 2	1.61E-05	No	No	No	Yes	No	No	No
79677	SMC6	structural maintenance of chromosomes 6	1.61E-05	Yes	No	No	No	Yes	Yes	No
468	ATF4	activating transcription factor 4 (tax-responsive enhancer element B67)	1.62E-05	No	No	No	Yes	No	Yes	No
57531	HACE1	HECT domain and ankyrin repeat containing, E3 ubiquitin protein ligase 1	1.62E-05	Yes	No	Yes	No	No	No	No
10905	MAN1A2	mannosidase, alpha, class 1A, member 2	1.62E-05	No	No	Yes	No	No	Yes	No
940	CD28	CD28 molecule	1.63E-05	No	No	Yes	No	No	No	No
84937	ZNRF1	zinc and ring finger 1	1.64E-05	Yes	No	Yes	No	No	No	No
23316	CUX2	cut-like homeobox 2	1.64E-05	No	No	Yes	No	No	No	No
2063	NR2F6	nuclear receptor subfamily 2, group F, member 6	1.64E-05	Yes	No	Yes	No	No	No	No
8487	SIP1	survival of motor neuron protein interacting protein 1	1.64E-05	No	No	Yes	No	No	No	No
55680	RUFY2	RUN and FYVE domain containing 2	1.65E-05	Yes	No	No	Yes	No	No	No
8701	DNAH11	dynein, axonemal, heavy chain 11	1.65E-05	No	No	Yes	No	No	No	No
84502	JPH4	junctionophilin 4	1.65E-05	Yes	No	No	Yes	No	No	No
134548	ANKRD43	ankyrin repeat domain 43	1.65E-05	No	No	No	No	No	No	No
29935	RPA4	replication protein A4, 34kDa	1.66E-05	Yes	No	Yes	No	No	No	No
2935	GSPT1	G1 to S phase transition 1	1.66E-05	Yes	No	No	Yes	No	No	No
55178	RNMTL1	RNA methyltransferase like 1	1.66E-05	No	No	Yes	No	No	No	No
43921	MXRA7	matrix-remodelling associated 7	1.66E-05	Yes	No	Yes	No	No	No	No
10421	CD2BP2	CD2 (cytoplasmic tail) binding protein 2	1.66E-05	No	Yes	No	Yes	No	No	No
8739	HRK	harakiri, BCL2 interacting protein (contains only BH3 domain)	1.66E-05	No	No	Yes	No	No	No	No
7158	TP53BP1	tumor protein p53 binding protein 1	1.66E-05	Yes	No	Yes	No	No	No	No
4130	MAP1A	microtubule-associated protein 1A	1.66E-05	No	No	Yes	No	No	No	No
340719	NANOS1	nanos homolog 1 (Drosophila)	1.67E-05	No	No	Yes	No	No	No	No
5428	POLG	polymerase (DNA directed), gamma	1.67E-05	No	No	Yes	No	No	No	No

3676	ITGA4	integrin, alpha 4 (antigen CD49D, alpha 4 subunit of VLA-4 receptor)	1.68E-05	Yes	No	Yes	No	No	No	No
55706	TMEM48	transmembrane protein 48	1.68E-05	No	No	Yes	No	No	No	No
1298	COL9A2	collagen, type IX, alpha 2	1.68E-05	Yes	No	Yes	No	No	No	No
64421	DCLRE1C	DNA cross-link repair 1C (PSO2 homolog, <i>S. cerevisiae</i>)	1.68E-05	No	No	Yes	No	No	No	No
56829	ZC3HAV1	zinc finger CCCH-type, antiviral 1	1.68E-05	Yes	No	Yes	No	No	No	No
23198	PSME4	proteasome (prosome, macropain) activator subunit 4	1.69E-05	Yes	No	Yes	No	No	No	No
56181	FAM54B	family with sequence similarity 54, member B	1.69E-05	No	No	No	No	No	No	No
6207	RPS13	ribosomal protein S13	1.69E-05	No	No	Yes	No	No	No	No
9648	GCC2	GRIP and coiled-coil domain containing 2	1.69E-05	No	No	Yes	No	No	No	No
9134	CCNE2	cyclin E2	1.70E-05	No	No	Yes	No	No	No	No
1499	CTNNB1	catenin (cadherin-associated protein), beta 1, 88kDa	1.71E-05	No	No	No	No	Yes	No	No
127544	RNF19B	ring finger protein 19B	1.71E-05	No	Yes	Yes	No	No	No	No
23568	ARL2BP	ADP-ribosylation factor-like 2 binding protein	1.72E-05	No	No	Yes	No	No	No	No
157848	NKX6-3	NK6 homeobox 3	1.72E-05	NA*	Yes	No	No	No	No	No
92255	LMBRD2	LMBR1 domain containing 2	1.73E-05	No	No	No	No	No	No	No
141	ADPRH	ADP-ribosylarginine hydrolase	1.73E-05	No	No	No	No	Yes	No	No
3202	HOXA5	homeobox A5	1.73E-05	No	No	Yes	No	No	No	No
26147	PHF19	PHD finger protein 19	1.73E-05	No	No	Yes	No	No	No	No
5568	PRKACG	protein kinase, cAMP-dependent, catalytic, gamma	1.74E-05	No	No	No	Yes	No	No	No
124930	ANKRD13B	ankyrin repeat domain 13B	1.74E-05	No	No	No	Yes	No	No	No
22903	BTBD3	BTB (POZ) domain containing 3	1.74E-05	Yes	No	Yes	No	No	No	No
1380	CR2	complement component (3d/Epstein Barr virus) receptor 2	1.75E-05	No	No	Yes	No	No	No	No
23112	TNRC6B	trinucleotide repeat containing 6B	1.75E-05	Yes	No	No	No	No	No	No
1186	CLCN7	chloride channel 7	1.75E-05	Yes	No	No	Yes	No	No	No
9936	CD302	CD302 molecule	1.75E-05	No	No	Yes	No	No	No	No
80776	B9D2	B9 protein domain 2	1.75E-05	No	No	No	Yes	No	No	No
10936	GPR75	G protein-coupled receptor 75	1.75E-05	Yes	No	Yes	No	No	No	No
5423	POLB	polymerase (DNA directed), beta	1.76E-05	No	No	Yes	No	No	No	No
4247	MGAT2	mannosyl (alpha-1,6-)-glycoprotein beta-1,2-N-acetylglucosaminyltransferase	1.77E-05	No	No	No	No	Yes	Yes	No
8867	SYNJ1	synaptojanin 1	1.77E-05	No	No	Yes	No	No	No	No
144423	GLT1D1	glycosyltransferase 1 domain containing 1	1.77E-05	No	No	No	No	No	No	No
4800	NFYA	nuclear transcription factor Y, alpha	1.78E-05	No	No	No	Yes	No	No	No
51074	APIP	APAF1 interacting protein	1.78E-05	No	No	No	No	Yes	Yes	No
6303	SAT1	spermidine/spermine N1-acetyltransferase 1	1.79E-05	Yes	No	No	Yes	No	No	No

55802	DCP1A	DCP1 decapping enzyme homolog A (S. cerevisiae)	1.79E-05	Yes	No	No	Yes	No	No	No
4014	LOR	loricin	1.79E-05	No	No	No	Yes	No	No	No
444	ASPH	aspartate beta-hydroxylase	1.79E-05	No	Yes	No	Yes	No	No	No
51000	SLC35B3	solute carrier family 35, member B3	1.80E-05	No	No	Yes	No	No	No	No
10620	ARID3B	AT rich interactive domain 3B (BRIGHT-like)	1.81E-05	Yes	No	Yes	No	No	Yes	No
11047	ADRM1	adhesion regulating molecule 1	1.81E-05	No	No	No	Yes	No	No	No
8525	DGKZ	diacylglycerol kinase, zeta 104kDa	1.81E-05	No	No	No	Yes	No	No	No
10363	HMG20A	high-mobility group 20A	1.81E-05	No	No	Yes	No	No	No	No
10786	SLC17A3	solute carrier family 17 (sodium phosphate), member 3	1.82E-05	No	No	No	Yes	No	No	No
5891	RAGE	renal tumor antigen	1.82E-05	No	No	Yes	No	No	Yes	No
26036	ZNF451	zinc finger protein 451	1.82E-05	No	No	Yes	No	No	Yes	Yes
23091	ZC3H13	zinc finger CCCH-type containing 13	1.82E-05	No	No	Yes	No	No	No	No
7528	YY1	YY1 transcription factor	1.82E-05	No	No	Yes	No	No	No	No
104	ADARB1	adenosine deaminase, RNA-specific, B1 (RED1 homolog rat)	1.83E-05	No	No	Yes	No	No	No	No
5627	PROS1	protein S (alpha)	1.83E-05	No	No	No	Yes	No	No	No
200894	ARL13B	ADP-ribosylation factor-like 13B	1.83E-05	No	No	No	Yes	No	No	No
7226	TRPM2	transient receptor potential cation channel, subfamily M, member 2	1.84E-05	Yes	No	No	Yes	No	No	No
11186	RASSF1	Ras association (RalGDS/AF-6) domain family member 1	1.85E-05	Yes	No	Yes	No	No	No	No
3364	HUS1	HUS1 checkpoint homolog (S. pombe)	1.85E-05	No	No	Yes	No	No	No	No
3324	HSP90AA2	heat shock protein 90kDa alpha (cytosolic), class A member 2	1.86E-05	NA	No	No	Yes	No	No	No
6470	SHMT1	serine hydroxymethyltransferase 1 (soluble)	1.86E-05	No	No	No	Yes	No	No	No
390260	OR6X1	olfactory receptor, family 6, subfamily X, member 1	1.86E-05	NA	No	Yes	No	No	No	No
3178	HNRNPA1	heterogeneous nuclear ribonucleoprotein A1	1.86E-05	No	Yes	Yes	No	No	No	No
9031	BAZ1B	bromodomain adjacent to zinc finger domain, 1B	1.87E-05	No	No	Yes	No	No	No	No
122953	JDP2	Jun dimerization protein 2	1.87E-05	No	No	No	No	No	No	No
25801	GCA	grancalcin, EF-hand calcium binding protein	1.87E-05	No	No	Yes	No	No	No	No
92745	SLC38A5	solute carrier family 38, member 5	1.88E-05	Yes	Yes	No	Yes	No	No	No
24140	FTSJ1	FtsJ homolog 1 (E. coli)	1.88E-05	Yes	No	No	Yes	No	No	No
6310	ATXN1	ataxin 1	1.88E-05	Yes	Yes	Yes	No	No	Yes	No
6657	SOX2	SRY (sex determining region Y)-box 2	1.88E-05	No	No	Yes	No	No	No	No
85013	TMEM128	transmembrane protein 128	1.88E-05	No	No	Yes	No	No	No	No
140	ADORA3	adenosine A3 receptor	1.89E-05	Yes	No	No	Yes	No	No	No
5108	PCM1	pericentriolar material 1	1.90E-05	Yes	No	Yes	No	No	No	No
9761	KIAA0152	KIAA0152	1.90E-05	No	No	No	Yes	No	No	No

23764	MAFF	v-maf musculoaponeurotic fibrosarcoma oncogene homolog F (avian)	1.90E-05	Yes	No	No	Yes	No	No	No
168455	FLJ36031	hypothetical protein FLJ36031	1.90E-05	No	No	Yes	No	No	Yes	No
2588	GALNS	galactosamine (N-acetyl)-6-sulfate sulfatase (Morquio syndrome, mucopolysaccharidosis type IVA)	1.92E-05	No	No	Yes	No	No	No	No
3992	FADS1	fatty acid desaturase 1	1.92E-05	No	No	No	No	No	No	No
9087	TMSB4Y	thymosin beta 4, Y-linked	1.92E-05	No	No	No	Yes	No	No	No
4124	MAN2A1	mannosidase, alpha, class 2A, member 1	1.93E-05	No	No	Yes	No	No	No	No
57692	MAGEE1	melanoma antigen family E, 1	1.93E-05	No	No	No	Yes	No	No	No
56919	DHX33	DEAH (Asp-Glu-Ala-His) box polypeptide 33	1.93E-05	No	No	Yes	No	No	No	No
29765	TMOD4	tropomodulin 4 (muscle)	1.93E-05	Yes	No	Yes	No	No	No	No
206358	SLC36A1	solute carrier family 36 (proton/amino acid symporter), member 1	1.93E-05	No	No	No	No	No	No	No
11167	FSTL1	folistatin-like 1	1.94E-05	No	No	Yes	No	No	No	No
117143	TADA1L	transcriptional adaptor 1 (HFI1 homolog, yeast)-like	1.95E-05	No	No	Yes	No	No	No	No
200035	NUDT17	nudix (nucleoside diphosphate linked moiety X)-type motif 17	1.96E-05	No	Yes	Yes	No	No	No	No
51555	PEX5L	peroxisomal biogenesis factor 5-like	1.96E-05	No	No	No	No	Yes	No	No
285172	FAM126B	family with sequence similarity 126, member B	1.98E-05	No	No	Yes	No	No	No	No
2274	FHL2	four and a half LIM domains 2	1.99E-05	No	No	Yes	No	No	No	No
490	ATP2B1	ATPase, Ca++ transporting, plasma membrane 1	1.99E-05	No	No	Yes	No	No	No	No
51633	OTUD6B	OTU domain containing 6B	1.99E-05	No	No	Yes	No	No	No	No
3684	ITGAM	integrin, alpha M (complement component 3 receptor 3 subunit)	2.00E-05	Yes	No	No	Yes	No	No	No
85445	CNTNAP4	contactin associated protein-like 4	2.00E-05	No	No	Yes	No	No	No	No
11318	GPR182	G protein-coupled receptor 182	2.00E-05	No	No	Yes	No	No	No	No
596	BCL2	B-cell CLL/lymphoma 2	2.01E-05	Yes	Yes	Yes	No	No	Yes	Yes
2319	FLOT2	flotillin 2	2.01E-05	Yes	No	No	Yes	No	No	No
55603	FAM46A	family with sequence similarity 46, member A	2.01E-05	Yes	No	No	Yes	No	Yes	No
23262	HISPPD1	histidine acid phosphatase domain containing 1	2.02E-05	No	No	No	Yes	No	No	No
54826	GIN1	gypsy retrotransposon integrase 1	2.02E-05	No	No	No	Yes	No	No	No
79813	EHMT1	euchromatic histone-lysine N-methyltransferase 1	2.02E-05	No	Yes	Yes	No	No	No	No
25777	UNC84B	unc-84 homolog B (C. elegans)	2.02E-05	Yes	No	Yes	No	No	No	No
8877	SPHK1	sphingosine kinase 1	2.02E-05	No	No	No	No	No	No	No
6869	TACR1	tachykinin receptor 1	2.02E-05	No	No	Yes	No	No	No	No
171586	ABHD3	abhydrolase domain containing 3	2.02E-05	No	No	Yes	No	No	No	No
55054	ATG16L1	ATG16 autophagy related 16-like 1 (S. cerevisiae)	2.02E-05	No	No	Yes	No	No	No	No
80758	PRR7	proline rich 7 (synaptic)	2.02E-05	No	No	No	Yes	No	No	No
126402	CDC105	coiled-coil domain containing 105	2.03E-05	No	No	No	Yes	No	No	No

91749	KIAA1919	KIAA1919	2.03E-05	No	No	Yes	No	No	No	No
1060	CENPC1	centromere protein C 1	2.04E-05	No	Yes	Yes	No	No	No	No
89887	ZNF628	zinc finger protein 628	2.05E-05	No	No	Yes	No	No	No	No
4125	MAN2B1	mannosidase, alpha, class 2B, member 1	2.05E-05	Yes	No	Yes	No	No	No	No
5251	PHEX	phosphate regulating endopeptidase homolog, X-linked (hypophosphatemia, vitamin D resistant rickets)	2.05E-05	No	No	Yes	No	No	No	No
161003	STOML3	stomatrin (EPB72)-like 3	2.05E-05	No	No	No	Yes	No	No	No
342357	ZKSCAN2	zinc finger with KRAB and SCAN domains 2	2.05E-05	No	No	No	No	Yes	No	No
134430	WDR36	WD repeat domain 36	2.05E-05	No	No	Yes	No	No	No	No
138474	TAF1L	TAF1 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 210kDa-like	2.05E-05	No	No	No	Yes	No	No	No
145581	LRFN5	leucine rich repeat and fibronectin type III domain containing 5	2.07E-05	No	No	Yes	No	No	No	No
51237	MGC29506	hypothetical protein MGC29506	2.07E-05	No	No	No	No	No	No	No
7443	VRK1	vaccinia related kinase 1	2.08E-05	No	No	Yes	No	No	Yes	No
9652	TTC37	tetratricopeptide repeat domain 37	2.08E-05	No	No	No	Yes	No	No	No
9857	CEP350	centrosomal protein 350kDa	2.08E-05	No	No	No	Yes	No	No	No
8729	GBF1	golgi-specific brefeldin A resistance factor 1	2.08E-05	No	No	Yes	No	No	No	No
54617	INOC1	INO80 complex homolog 1 (S. cerevisiae)	2.09E-05	No	No	No	Yes	No	Yes	No
25942	SIN3A	SIN3 homolog A, transcription regulator (yeast)	2.09E-05	Yes	No	No	Yes	No	No	No
252983	STXB4	syntaxin binding protein 4	2.10E-05	No	No	No	Yes	No	No	No
114294	LACTB	lactamase, beta	2.10E-05	Yes	No	Yes	No	No	No	No
59344	ALOXE3	arachidonate lipoxygenase 3	2.10E-05	No	No	No	No	Yes	No	No
9580	SOX13	SRY (sex determining region Y)-box 13	2.10E-05	No	No	No	Yes	No	No	No
57697	FANCM	Fanconi anemia, complementation group M	2.12E-05	No	No	Yes	No	No	No	No
2287	FKBP3	FK506 binding protein 3, 25kDa	2.12E-05	No	No	Yes	No	No	No	No
3597	IL13RA1	interleukin 13 receptor, alpha 1	2.14E-05	Yes	No	Yes	No	No	No	No
83478	ARHGAP24	Rho GTPase activating protein 24	2.15E-05	Yes	No	No	Yes	No	No	No
56169	MLZE	melanoma-derived leucine zipper, extra-nuclear factor	2.16E-05	No	No	No	No	Yes	No	No
2014	EMP3	epithelial membrane protein 3	2.16E-05	Yes	Yes	No	Yes	No	No	No
8050	PDHX	pyruvate dehydrogenase complex, component X	2.16E-05	No	No	No	No	Yes	Yes	No
4534	MTM1	myotubularin 1	2.17E-05	No	No	Yes	No	No	No	No
5562	PRKAA1	protein kinase, AMP-activated, alpha 1 catalytic subunit	2.17E-05	Yes	No	Yes	No	No	No	No
130814	PQLC3	PQ loop repeat containing 3	2.17E-05	Yes	No	Yes	No	No	No	No
6613	SUMO2	SMT3 suppressor of mif two 3 homolog 2 (S. cerevisiae)	2.17E-05	No	No	No	Yes	No	No	No
23589	CARHSP1	calcium regulated heat stable protein 1, 24kDa	2.18E-05	No	No	No	No	No	No	No
1164	CKS2	CDC28 protein kinase regulatory subunit 2	2.19E-05	No	No	Yes	No	No	No	No

9923	ZBTB40	zinc finger and BTB domain containing 40	2.19E-05	Yes	No	Yes	No	No	No	No
960	CD44	CD44 molecule (Indian blood group)	2.19E-05	Yes	Yes	Yes	No	No	No	No
54478	FAM64A	family with sequence similarity 64, member A	2.21E-05	No	Yes	Yes	No	No	No	No
23746	AIPL1	aryl hydrocarbon receptor interacting protein-like 1	2.21E-05	No	No	Yes	No	No	No	No
4953	ODC1	ornithine decarboxylase 1	2.22E-05	No	No	Yes	No	No	No	No
3269	HRH1	histamine receptor H1	2.22E-05	No	No	No	Yes	No	No	No
4038	LRP4	low density lipoprotein receptor-related protein 4	2.22E-05	No	No	No	Yes	No	No	No
6618	SNAPC2	small nuclear RNA activating complex, polypeptide 2, 46kDa	2.23E-05	No	No	No	No	No	No	No
50848	F11R	F11 receptor	2.24E-05	Yes	Yes	Yes	No	No	No	No
9499	MYOT	myotilin	2.24E-05	No	No	Yes	No	No	No	No
10648	SCGB1D1	secretoglobin, family 1D, member 1	2.24E-05	No	No	Yes	No	No	No	No
3662	IRF4	interferon regulatory factor 4	2.25E-05	Yes	No	No	Yes	No	Yes	Yes
4898	NRD1	nardilysin (N-arginine dibasic convertase)	2.27E-05	No	No	Yes	No	No	Yes	No
57228	LOC57228	small trans-membrane and glycosylated protein	2.27E-05	Yes	No	Yes	No	No	Yes	Yes
1958	EGR1	early growth response 1	2.27E-05	No	No	No	Yes	No	No	No
79690	GAL3ST4	galactose-3-O-sulfotransferase 4	2.27E-05	No	No	No	Yes	No	No	No
9782	MATR3	matrin 3	2.27E-05	No	No	No	Yes	No	No	No
22826	DNAJC8	DnaJ (Hsp40) homolog, subfamily C, member 8	2.28E-05	No	No	Yes	No	No	Yes	No
93974	ATPIF1	ATPase inhibitory factor 1	2.28E-05	No	No	Yes	No	No	No	No
9049	AIP	aryl hydrocarbon receptor interacting protein	2.28E-05	No	No	Yes	No	No	No	No
92399	MRRF	mitochondrial ribosome recycling factor	2.28E-05	No	No	Yes	No	No	Yes	No
55888	ZNF167	zinc finger protein 167	2.28E-05	No	No	No	Yes	No	No	No
54462	KIAA1128	KIAA1128	2.29E-05	No	No	Yes	No	No	No	No
1666	DECR1	2,4-dienoyl CoA reductase 1, mitochondrial	2.30E-05	Yes	No	Yes	No	No	No	No
1613	DAPK3	death-associated protein kinase 3	2.30E-05	No	No	Yes	No	No	No	No
27020	NPTN	neuropilin	2.30E-05	No	No	No	Yes	No	No	No
64682	ANAPC1	anaphase promoting complex subunit 1	2.31E-05	No	No	Yes	No	No	No	No
10762	NUP50	nucleoporin 50kDa	2.31E-05	No	No	No	Yes	No	No	No
64146	PDF	peptide deformylase (mitochondrial)	2.31E-05	No	No	Yes	No	No	No	No
7700	ZNF141	zinc finger protein 141	2.33E-05	No	Yes	Yes	No	No	No	No
323	APBB2	amyloid beta (A4) precursor protein-binding, family 8, member 2 (Fe65-like)	2.33E-05	No	No	Yes	No	No	No	No
10298	PAK4	p21 protein (Cdc42/Rac)-activated kinase 4	2.34E-05	No	No	Yes	No	No	No	No
55758	RCOR3	REST corepressor 3	2.34E-05	No	No	Yes	No	No	No	No
92270	LOC92270	hypothetical protein LOC92270	2.34E-05	No	No	No	Yes	No	No	No

51075	TXNDC14	thioredoxin domain containing 14	2.34E-05	Yes	Yes	Yes	No	No	Yes	No
219541	MED19	mediator complex subunit 19	2.34E-05	No	No	Yes	No	No	No	No
57721	KIAA1627	KIAA1627 protein	2.35E-05	No	No	No	Yes	No	No	No
10592	SMC2	structural maintenance of chromosomes 2	2.35E-05	No	No	Yes	No	No	No	No
55049	C19orf60	chromosome 19 open reading frame 60	2.35E-05	Yes	No	Yes	No	No	No	No
23424	TDRD7	tudor domain containing 7	2.38E-05	No	No	No	Yes	No	No	No
6217	RPS16	ribosomal protein S16	2.39E-05	No	No	Yes	No	No	No	No
6829	SUPT5H	suppressor of Ty 5 homolog (S. cerevisiae)	2.39E-05	No	No	Yes	No	No	No	No
272	AMPD3	adenosine monophosphate deaminase (isoform E)	2.39E-05	Yes	No	No	Yes	No	No	No
57185	NPAL3	NIPA-like domain containing 3	2.39E-05	Yes	No	Yes	No	No	Yes	No
523	ATP6V1A	ATPase, H+ transporting, lysosomal 70kDa, V1 subunit A	2.40E-05	No	No	Yes	No	No	Yes	No
63901	FAM111A	family with sequence similarity 111, member A	2.40E-05	No	No	Yes	No	No	No	No
51347	TAOK3	TAO kinase 3	2.40E-05	No	No	Yes	No	No	No	No
64426	SUDS3	suppressor of defective silencing 3 homolog (S. cerevisiae)	2.40E-05	No	No	Yes	No	No	No	No
54535	CCHCR1	coiled-coil alpha-helical rod protein 1	2.41E-05	No	No	Yes	No	No	Yes	No
6941	TCF19	transcription factor 19 (SC1)	2.41E-05	No	No	Yes	No	No	No	No
119467	CLRN3	clarin 3	2.42E-05	No	No	No	Yes	No	No	No
27065	D4S234E	DNA segment on chromosome 4 (unique) 234 expressed sequence	2.42E-05	No	No	No	No	No	No	No
5890	RAD51L1	RAD51-like 1 (S. cerevisiae)	2.42E-05	Yes	No	No	Yes	No	No	No
23503	ZFYVE26	zinc finger, FYVE domain containing 26	2.42E-05	No	No	No	Yes	No	Yes	No
8061	FOSL1	FOS-like antigen 1	2.43E-05	No	No	Yes	No	No	No	No
23360	FNBP4	formin binding protein 4	2.43E-05	Yes	No	Yes	No	No	No	No
8482	SEMA7A	semaphorin 7A, GPI membrane anchor (John Milton Hagen blood group)	2.44E-05	No	No	No	No	Yes	No	No
9406	ZRANB2	zinc finger, RAN-binding domain containing 2	2.44E-05	No	No	Yes	No	No	Yes	No
2099	ESR1	estrogen receptor 1	2.44E-05	Yes	No	Yes	No	No	No	No
51258	MRPL51	mitochondrial ribosomal protein L51	2.45E-05	No	No	No	Yes	No	Yes	No
29028	ATAD2	ATPase family, AAA domain containing 2	2.45E-05	No	No	Yes	No	No	No	No
8891	EIF2B3	eukaryotic translation initiation factor 2B, subunit 3 gamma, 58kDa	2.45E-05	No	No	Yes	No	No	No	No
382	ARF6	ADP-ribosylation factor 6	2.47E-05	No	No	No	No	Yes	Yes	No
7153	TOP2A	topoisomerase (DNA) II alpha 170kDa	2.47E-05	No	No	Yes	No	No	No	No
22796	COG2	component of oligomeric golgi complex 2	2.47E-05	No	No	Yes	No	No	No	No
25893	TRIM58	tripartite motif-containing 58	2.47E-05	No	No	Yes	No	No	No	No
4760	NEUROD1	neurogenic differentiation 1	2.47E-05	No	No	Yes	No	No	No	No
116983	CENTB5	centaurin, beta 5	2.48E-05	No	No	No	Yes	No	No	No

126789	PUSL1	pseudouridylate synthase-like 1	2.48E-05	No	No	No	Yes	No	No	No
55565	ZNF821	zinc finger protein 821	2.48E-05	No	Yes	No	No	Yes	No	No
255919	TMEM188	transmembrane protein 188	2.48E-05	No	No	Yes	No	No	No	No
25945	PVRL3	poliovirus receptor-related 3	2.49E-05	No	No	Yes	No	No	No	No
11171	STRAP	serine/threonine kinase receptor associated protein	2.49E-05	No	No	Yes	No	No	No	No
8909	P11	26 serine protease	2.49E-05	Yes	No	Yes	No	No	No	No
54885	TBC1D8B	TBC1 domain family, member 8B (with GRAM domain)	2.51E-05	No	Yes	No	No	Yes	No	No
54476	RNF216	ring finger protein 216	2.51E-05	Yes	No	No	No	Yes	No	No
4615	MYD88	myeloid differentiation primary response gene (88)	2.52E-05	Yes	No	No	Yes	No	Yes	No
30	ACAA1	acetyl-Coenzyme A acyltransferase 1 (peroxisomal 3-oxoacyl-Coenzyme A thiolase)	2.52E-05	No	No	No	Yes	No	Yes	No
283212	FLJ33790	hypothetical protein FLJ33790	2.52E-05	No	No	No	No	No	No	No
55037	PTCD3	Pentatricopeptide repeat domain 3	2.52E-05	Yes	No	Yes	No	No	No	No
9427	ECEL1	endothelin converting enzyme-like 1	2.52E-05	No	No	Yes	No	No	No	No
119694	OR51F2	olfactory receptor, family 51, subfamily F, member 2	2.52E-05	NA	No	Yes	No	No	No	No
29895	MYLPP	fast skeletal myosin light chain 2	2.56E-05	Yes	No	No	No	Yes	No	No
27023	FOXB1	forkhead box B1	2.56E-05	No	No	No	No	Yes	No	No
63920	LOC63920	transposon-derived Buster3 transposase-like	2.56E-05	No	No	Yes	No	No	No	No
51290	ERGIC2	ERGIC and golgi 2	2.56E-05	Yes	No	Yes	No	No	No	No
6307	SC4MOL	sterol-C4-methyl oxidase-like	2.57E-05	No	No	Yes	No	No	No	No
163589	TDRD5	tudor domain containing 5	2.57E-05	Yes	No	No	Yes	No	No	No
219557	MGC26647	hypothetical protein MGC26647	2.57E-05	Yes	No	Yes	No	No	No	No
124056	NOXO1	NADPH oxidase organizer 1	2.57E-05	No	No	No	No	No	No	No
3954	LETM1	leucine zipper-EF-hand containing transmembrane protein 1	2.57E-05	No	No	No	Yes	No	No	No
151473	SLC16A14	solute carrier family 16, member 14 (monocarboxylic acid transporter 14)	2.57E-05	No	No	Yes	No	No	No	No
10419	PRMT5	protein arginine methyltransferase 5	2.58E-05	No	No	Yes	No	No	Yes	No
9204	ZMYM6	zinc finger, MYM-type 6	2.58E-05	No	No	Yes	No	No	No	No
7913	DEK	DEK oncogene (DNA binding)	2.58E-05	No	No	Yes	No	No	No	No
347365	ITIH5L	inter-alpha (globulin) inhibitor H5-like	2.58E-05	No	No	Yes	No	No	No	No
10427	SEC24B	SEC24 related gene family, member B (S. cerevisiae)	2.58E-05	No	No	Yes	No	No	No	No
9694	TTC35	tetratricopeptide repeat domain 35	2.59E-05	No	No	Yes	No	No	Yes	No
80736	SLC44A4	solute carrier family 44, member 4	2.61E-05	No	No	No	No	No	No	No
2806	GOT2	glutamic-oxaloacetic transaminase 2, mitochondrial (aspartate aminotransferase 2)	2.61E-05	No	No	Yes	No	No	No	No
6938	TCF12	transcription factor 12 (HTF4, helix-loop-helix transcription factors 4)	2.61E-05	Yes	No	No	No	Yes	No	No
4062	LY6H	lymphocyte antigen 6 complex, locus H	2.61E-05	No	No	No	Yes	No	No	No

112939	BTBD14B	BTB (POZ) domain containing 14B	2.61E-05	Yes	No	Yes	No	No	No	No
9444	QKI	quaking homolog, KH domain RNA binding (mouse)	2.61E-05	Yes	Yes	No	Yes	No	No	No
80305	TRABD	TraB domain containing	2.61E-05	No	No	No	Yes	No	No	No
6992	PPP1R11	protein phosphatase 1, regulatory (inhibitor) subunit 11	2.62E-05	Yes	No	No	Yes	No	Yes	Yes
51227	PIGP	phosphatidylinositol glycan anchor biosynthesis, class P	2.62E-05	No	No	No	Yes	No	No	No
4037	LRP3	low density lipoprotein receptor-related protein 3	2.63E-05	No	No	No	No	Yes	No	No
84366	C17orf92	chromosome 17 open reading frame 92	2.64E-05	No	No	Yes	No	No	No	No
57661	KIAA1542	CTD-binding SR-like protein rA9	2.64E-05	No	No	No	Yes	No	No	No
3267	HRB	HIV-1 Rev binding protein	2.65E-05	No	No	Yes	No	No	No	No
1729	DIAPH1	diaphanous homolog 1 (Drosophila)	2.65E-05	Yes	No	Yes	No	No	No	No
79780	CCDC82	coiled-coil domain containing 82	2.66E-05	No	No	No	No	No	Yes	No
137902	PXDNL	peroxidasin homolog (Drosophila)-like	2.66E-05	No	No	No	Yes	No	No	No
9100	USP10	ubiquitin specific peptidase 10	2.67E-05	No	No	Yes	No	No	No	No
3834	KIF25	kinesin family member 25	2.67E-05	No	No	Yes	No	No	No	No
26275	HIBCH	3-hydroxyisobutyryl-Coenzyme A hydrolase	2.67E-05	No	No	Yes	No	No	No	No
51427	ZNF107	zinc finger protein 107	2.68E-05	No	No	Yes	No	No	No	No
143662	MUC15	mucin 15, cell surface associated	2.69E-05	Yes	No	No	No	No	No	No
4045	LSAMP	limbic system-associated membrane protein	2.69E-05	Yes	No	Yes	No	No	No	No
64173	SPATA1	spermatogenesis associated 1	2.69E-05	No	No	Yes	No	No	No	No
10015	PDCD6IP	programmed cell death 6 interacting protein	2.70E-05	Yes	No	No	Yes	No	No	No
65012	SLC26A10	solute carrier family 26, member 10	2.70E-05	No	No	No	No	Yes	No	No
654	BMP6	bone morphogenetic protein 6	2.70E-05	No	No	Yes	No	No	No	No
8875	VNN2	vanin 2	2.70E-05	No	No	Yes	No	No	No	No
6845	VAMP7	vesicle-associated membrane protein 7	2.72E-05	No	No	No	Yes	No	No	No
782	CACNB1	calcium channel, voltage-dependent, beta 1 subunit	2.72E-05	Yes	No	No	No	No	No	No
6143	RPL19	ribosomal protein L19	2.72E-05	No	No	No	No	No	No	No
5507	PPP1R3C	protein phosphatase 1, regulatory (inhibitor) subunit 3C	2.72E-05	No	No	No	No	No	No	No
619189	SERINC4	serine incorporator 4	2.73E-05	NA	No	Yes	No	No	No	No
84706	GPT2	glutamic pyruvate transaminase (alanine aminotransferase) 2	2.73E-05	No	No	No	No	No	No	No
64839	FBXL17	F-box and leucine-rich repeat protein 17	2.73E-05	Yes	No	Yes	No	No	No	No
6235	RPS29	ribosomal protein S29	2.73E-05	No	No	Yes	No	No	No	No
357	SHROOM2	shroom family member 2	2.74E-05	No	No	Yes	No	No	No	No
282775	ORSJ2	olfactory receptor, family 5, subfamily J, member 2	2.74E-05	No	No	Yes	No	No	No	No
27199	OXGR1	oxoglutarate (alpha-ketoglutarate) receptor 1	2.75E-05	No	No	Yes	No	No	No	No

125170	SMCR7	Smith-Magenis syndrome chromosome region, candidate 7	2.76E-05	No	No	No	No	No	No	No	No
4148	MATN3	matrilin 3	2.76E-05	No	No	Yes	No	No	No	No	No
79628	SH3TC2	SH3 domain and tetratricopeptide repeats 2	2.76E-05	No	No	No	Yes	No	No	No	No
9146	HGS	hepatocyte growth factor-regulated tyrosine kinase substrate	2.77E-05	No	No	No	No	No	No	No	No
85369	FAM40A	family with sequence similarity 40, member A	2.77E-05	No	No	Yes	No	No	No	No	No
2176	FANCC	Fanconi anemia, complementation group C	2.77E-05	No	No	Yes	No	No	No	No	No
340441	A26A1	ANKRD26-like family A, member 1	2.77E-05	NA	No	No	Yes	No	No	No	No
54935	DUSP23	dual specificity phosphatase 23	2.77E-05	No	No	No	Yes	No	No	No	No
171019	ADAMTS19	ADAM metalloproteinase with thrombospondin type 1 motif, 19	2.78E-05	Yes	No	No	Yes	No	No	No	No
79035	OBFC2B	oligonucleotide/oligosaccharide-binding fold containing 2B	2.78E-05	No	No	Yes	No	No	No	No	No
114876	OSBPL1A	oxysterol binding protein-like 1A	2.78E-05	Yes	No	Yes	No	No	No	No	No
1856	DVL2	dishevelled, dsh homolog 2 (Drosophila)	2.78E-05	No	No	Yes	No	No	No	No	No
79047	KCTD15	potassium channel tetramerisation domain containing 15	2.78E-05	No	No	Yes	No	No	No	No	No
55255	WDR41	WD repeat domain 41	2.78E-05	No	No	Yes	No	No	No	No	No
8517	IKBKG	inhibitor of kappa light polypeptide gene enhancer in B-cells, kinase gamma	2.79E-05	No	No	No	No	Yes	No	No	No
23461	ABCA5	ATP-binding cassette, sub-family A (ABC1), member 5	2.80E-05	No	No	No	Yes	No	No	No	No
4312	MMP1	matrix metalloproteinase 1 (interstitial collagenase)	2.80E-05	Yes	No	Yes	No	No	No	No	No
5019	OXCT1	3-oxoacid CoA transferase 1	2.80E-05	No	No	Yes	No	No	No	No	No
25934	NIPSNAP3A	nipsnap homolog 3A (C. elegans)	2.82E-05	No	No	Yes	No	No	Yes	No	No
23404	EXOSC2	exosome component 2	2.82E-05	No	No	Yes	No	No	No	No	No
139170	WDR40B	WD repeat domain 40B	2.82E-05	No	No	Yes	No	No	No	No	No
692085	SNORD45C	small nucleolar RNA, C/D box 45C	2.82E-05	NA	No	Yes	No	No	No	No	No
58475	MS4A7	membrane-spanning 4-domains, subfamily A, member 7	2.82E-05	Yes	Yes	Yes	No	No	No	No	No
3688	ITGB1	integrin, beta 1 (fibronectin receptor, beta polypeptide, antigen CD29 includes MDF2, MSK12)	2.82E-05	No	No	Yes	No	No	Yes	No	No
293	SLC25A6	solute carrier family 25 (mitochondrial carrier, adenine nucleotide translocator), member 6	2.83E-05	No	No	No	No	No	No	No	No
6785	ELOVL4	elongation of very long chain fatty acids (FEN1/Elo2, SUR4/Elo3, yeast)-like 4	2.85E-05	No	No	Yes	No	No	No	No	No
3204	HOXA7	homeobox A7	2.85E-05	No	No	Yes	No	No	No	No	No
4067	LYN	v-yes-1 Yamaguchi sarcoma viral related oncogene homolog	2.85E-05	Yes	No	No	Yes	No	Yes	No	No
25888	ZNF473	zinc finger protein 473	2.86E-05	No	No	Yes	No	No	Yes	No	No
51231	VRK3	vaccinia related kinase 3	2.86E-05	No	No	Yes	No	No	Yes	No	No
51458	RHCG	Rh family, C glycoprotein	2.86E-05	No	No	No	Yes	No	No	No	No
79939	SLC35E1	solute carrier family 35, member E1	2.87E-05	No	No	No	Yes	No	Yes	No	No
65009	NDRG4	NDRG family member 4	2.88E-05	No	No	No	No	No	No	No	No
84986	ARHGAP19	Rho GTPase activating protein 19	2.89E-05	No	No	Yes	No	No	No	No	No

10242	KCNMB2	potassium large conductance calcium-activated channel, subfamily M, beta member 2	2.89E-05	Yes	No	No	Yes	No	No	No
55623	THUMP1	THUMP domain containing 1	2.89E-05	Yes	No	Yes	No	No	No	No
134492	NUDCD2	NudC domain containing 2	2.89E-05	No	No	No	Yes	No	Yes	No
3161	HMMR	hyaluronan-mediated motility receptor (RHAMM)	2.89E-05	No	No	No	Yes	No	No	No
5335	PLCG1	phospholipase C, gamma 1	2.90E-05	No	No	No	No	Yes	No	No
54206	ERRF1	ERBB receptor feedback inhibitor 1	2.91E-05	No	No	No	No	Yes	No	No
84515	MCM8	minichromosome maintenance complex component 8	2.91E-05	No	No	No	Yes	No	No	No
22974	TPX2	TPX2, microtubule-associated, homolog (Xenopus laevis)	2.93E-05	No	No	Yes	No	No	No	No
9666	DZIP3	DAZ interacting protein 3, zinc finger	2.93E-05	No	No	No	Yes	No	No	No
7105	TSPAN6	tetraspanin 6	2.94E-05	Yes	No	Yes	No	No	No	No
80709	AKNA	AT-hook transcription factor	2.96E-05	Yes	No	No	Yes	No	No	No
23462	HEY1	hairly/enhancer-of-split related with YRPW motif 1	2.96E-05	Yes	No	Yes	No	No	No	No
8338	HIST2H2AC	histone cluster 2, H2ac	2.96E-05	NA	No	Yes	No	No	Yes	No
349565	NMNAT3	nicotinamide nucleotide adenyltransferase 3	2.97E-05	No	No	Yes	No	No	No	No
11075	STMN2	stathmin-like 2	2.98E-05	No	No	Yes	No	No	No	No
5303	PIN4	protein (peptidylprolyl cis/trans isomerase) NIMA-interacting, 4 (parvulin)	2.98E-05	No	No	No	No	No	No	No
79022	TMEM106C	transmembrane protein 106C	2.98E-05	No	No	No	No	No	No	No
23240	KIAA0922	KIAA0922	2.98E-05	No	No	Yes	No	No	Yes	No
7023	TFAP4	transcription factor AP-4 (activating enhancer binding protein 4)	2.98E-05	No	No	No	Yes	No	No	No
388962	BOLA3	bolA homolog 3 (E. coli)	2.99E-05	No	No	Yes	No	No	No	No
79029	SPATA5L1	spermatogenesis associated 5-like 1	2.99E-05	No	No	No	Yes	No	Yes	No
84274	COQ5	coenzyme Q5 homolog, methyltransferase (S. cerevisiae)	2.99E-05	No	No	No	Yes	No	Yes	No
9921	RNF10	ring finger protein 10	2.99E-05	No	No	No	Yes	No	No	No
8087	FXR1	fragile X mental retardation, autosomal homolog 1	2.99E-05	No	No	No	No	Yes	No	No
57678	GPAM	glycerol-3-phosphate acyltransferase, mitochondrial	3.00E-05	No	No	No	No	No	No	No
79990	PLEKH13	pleckstrin homology domain containing, family H (with MYTH4 domain) member 3	3.00E-05	Yes	No	No	Yes	No	No	No
1039	CDR2	cerebellar degeneration-related protein 2, 62kDa	3.00E-05	No	No	Yes	No	No	No	No
9472	AKAP6	A kinase (PRKA) anchor protein 6	3.01E-05	No	No	No	Yes	No	No	No
122618	PLD4	phospholipase D family, member 4	3.02E-05	Yes	No	No	Yes	No	Yes	No
401459	FLJ46365	hypothetical LOC401459	3.03E-05	NA	No	Yes	No	No	No	No
5515	PPP2CA	protein phosphatase 2 (formerly 2A), catalytic subunit, alpha isoform	3.03E-05	No	No	No	Yes	No	Yes	No
10227	MFS10	major facilitator superfamily domain containing 10	3.03E-05	No	No	No	No	No	No	No
3757	KCNH2	potassium voltage-gated channel, subfamily H (eag-related), member 2	3.03E-05	No	No	No	Yes	No	No	No
51110	LACTB2	lactamase, beta 2	3.05E-05	No	No	Yes	No	No	No	No

2824	GPM6B	glycoprotein M6B	3.05E-05	Yes	No	No	No	Yes	No	No
7976	FZD3	frizzled homolog 3 (Drosophila)	3.07E-05	No	No	Yes	No	No	No	No
5010	CLDN11	claudin 11 (oligodendrocyte transmembrane protein)	3.07E-05	No	No	Yes	No	No	No	No
1147	CHUK	conserved helix-loop-helix ubiquitous kinase	3.08E-05	No	No	No	Yes	No	No	No
9033	PKD2L1	polycystic kidney disease 2-like 1	3.09E-05	No	No	No	Yes	No	No	No
51619	UBE2D4	ubiquitin-conjugating enzyme E2D 4 (putative)	3.10E-05	No	No	Yes	No	No	No	No
25885	POLR1A	polymerase (RNA) I polypeptide A, 194kDa	3.11E-05	No	No	Yes	No	No	No	No
90273	CEACAM21	carcinoembryonic antigen-related cell adhesion molecule 21	3.11E-05	Yes	No	No	Yes	No	No	No
23314	SATB2	SATB homeobox 2	3.12E-05	Yes	No	No	Yes	No	No	No
4200	ME2	malic enzyme 2, NAD(+)-dependent, mitochondrial	3.12E-05	Yes	No	Yes	No	No	Yes	No
401137	C4orf40	chromosome 4 open reading frame 40	3.14E-05	NA	No	Yes	No	No	No	No
79717	PPCS	phosphopantothenoylcysteine synthetase	3.15E-05	No	No	No	Yes	No	Yes	No
57097	PARP11	poly (ADP-ribose) polymerase family, member 11	3.15E-05	No	No	Yes	No	No	No	No
153222	C5orf41	chromosome 5 open reading frame 41	3.15E-05	Yes	No	Yes	No	No	No	No
1390	CREM	cAMP responsive element modulator	3.15E-05	No	No	No	No	No	No	No
4126	MANBA	mannosidase, beta A, lysosomal	3.16E-05	No	No	Yes	No	No	No	No
3773	KCNJ16	potassium inwardly-rectifying channel, subfamily J, member 16	3.16E-05	No	No	Yes	No	No	No	No
23287	AGTPBP1	ATP/GTP binding protein 1	3.17E-05	No	No	Yes	No	No	No	No
163126	EID2	EP300 interacting inhibitor of differentiation 2	3.17E-05	No	No	Yes	No	No	No	No
25839	COG4	component of oligomeric golgi complex 4	3.17E-05	No	No	Yes	No	No	No	No
6898	TAT	tyrosine aminotransferase	3.20E-05	No	No	Yes	No	No	No	No
51199	NIN	ninein (GSK3B interacting protein)	3.20E-05	No	Yes	Yes	No	No	No	No
163590	TOR1AIP2	torsin A interacting protein 2	3.21E-05	Yes	No	Yes	No	No	No	No
90925	LOC90925	hypothetical protein LOC90925	3.21E-05	No	Yes	No	Yes	No	No	No
53407	STX18	syntaxin 18	3.21E-05	No	No	No	No	Yes	No	No
646	BNC1	basonuclin 1	3.22E-05	No	No	No	No	No	No	No
6720	SREBF1	sterol regulatory element binding transcription factor 1	3.22E-05	No	No	No	Yes	No	No	No
51192	CKLF	chemokine-like factor	3.24E-05	No	No	Yes	No	No	Yes	No
51155	HN1	hematological and neurological expressed 1	3.24E-05	No	No	No	No	Yes	No	No
2140	EYA3	eyes absent homolog 3 (Drosophila)	3.25E-05	No	No	Yes	No	No	No	No
5140	PDE3B	phosphodiesterase 3B, cGMP-inhibited	3.26E-05	Yes	No	Yes	No	No	No	No
387032	ZKSCAN4	zinc finger with KRAB and SCAN domains 4	3.26E-05	No	No	No	Yes	No	No	No
80139	ZNF703	zinc finger protein 703	3.27E-05	Yes	No	Yes	No	No	No	No
11124	FAF1	Fas (TNFRSF6) associated factor 1	3.28E-05	No	No	Yes	No	No	No	No

26156	RSL1D1	ribosomal L1 domain containing 1	3.29E-05	Yes	Yes	No	Yes	No	No	No
51379	CRLF3	cytokine receptor-like factor 3	3.31E-05	No	No	Yes	No	No	No	No
5607	MAP2K5	mitogen-activated protein kinase kinase 5	3.31E-05	Yes	No	Yes	No	No	Yes	No
120103	SLC36A4	solute carrier family 36 (proton/amino acid symporter), member 4	3.32E-05	No	No	Yes	No	No	No	No
59082	ICEBERG	ICEBERG caspase-1 inhibitor	3.32E-05	No	No	Yes	No	No	No	No
7402	UTRN	utrophin	3.33E-05	Yes	No	No	Yes	No	No	No
54874	FBNP1L	formin binding protein 1-like	3.33E-05	Yes	No	Yes	No	No	No	No
440	ASNS	asparagine synthetase	3.34E-05	No	No	Yes	No	No	No	No
85014	TMEM141	transmembrane protein 141	3.34E-05	No	No	No	Yes	No	No	No
23389	MED13L	mediator complex subunit 13-like	3.35E-05	Yes	No	No	No	No	No	No
29799	YPPEL1	yippee-like 1 (Drosophila)	3.35E-05	Yes	No	Yes	No	No	No	No
117145	THEM4	thioesterase superfamily member 4	3.36E-05	No	No	Yes	No	No	No	No
84908	FAM136A	family with sequence similarity 136, member A	3.36E-05	No	No	Yes	No	No	No	No
85004	RERG	RAS-like, estrogen-regulated, growth inhibitor	3.36E-05	Yes	No	No	Yes	No	No	No
10460	TACC3	transforming, acidic coiled-coil containing protein 3	3.36E-05	No	No	No	Yes	No	No	No
3097	HIVEP2	human immunodeficiency virus type 1 enhancer binding protein 2	3.38E-05	No	No	Yes	No	No	No	No
5948	RBP2	retinol binding protein 2, cellular	3.40E-05	No	No	No	Yes	No	No	No
266977	GPR110	G protein-coupled receptor 110	3.40E-05	No	No	No	Yes	No	No	No
221442	LOC221442	hypothetical LOC221442	3.41E-05	Yes	No	Yes	No	No	No	No
6950	TCP1	t-complex 1	3.42E-05	No	Yes	Yes	No	No	Yes	No
29074	MRPL18	mitochondrial ribosomal protein L18	3.42E-05	No	No	Yes	No	No	Yes	No
2962	GTF2F1	general transcription factor IIF, polypeptide 1, 74kDa	3.45E-05	No	No	No	Yes	No	No	No
163732	CITED4	Cbp/p300-interacting transactivator, with Glu/Asp-rich carboxy-terminal domain, 4	3.45E-05	No	No	No	Yes	No	Yes	No
79665	DHX40	DEAH (Asp-Glu-Ala-His) box polypeptide 40	3.45E-05	No	Yes	No	Yes	No	No	No
144360	FLJ32894	hypothetical protein LOC144360	3.45E-05	No	No	No	No	No	No	No
23408	SIRT5	sirtuin (silent mating type information regulation 2 homolog) 5 (S. cerevisiae)	3.45E-05	Yes	No	Yes	No	No	No	No
8320	EOMES	eomesodermin homolog (Xenopus laevis)	3.45E-05	Yes	No	Yes	No	No	No	No
57510	XPO5	exportin 5	3.46E-05	Yes	No	Yes	No	No	Yes	No
390155	OR5T1	olfactory receptor, family 5, subfamily T, member 1	3.46E-05	NA	No	Yes	No	No	No	No
1434	CSE1L	CSE1 chromosome segregation 1-like (yeast)	3.46E-05	No	No	No	Yes	No	No	No
85444	LRRCC1	leucine rich repeat and coiled-coil domain containing 1	3.46E-05	No	No	No	Yes	No	No	No
10159	ATP6AP2	ATPase, H+ transporting, lysosomal accessory protein 2	3.46E-05	No	No	Yes	No	No	No	No
5203	PFDN4	prefoldin subunit 4	3.47E-05	No	No	Yes	No	No	No	No
23620	NTSR2	neurotensin receptor 2	3.47E-05	No	No	Yes	No	No	No	No

151246	SGOL2	shugoshin-like 2 (S. pombe)	3.48E-05	No	No	Yes	No	No	No	No
9813	KIAA0494	KIAA0494	3.48E-05	Yes	No	Yes	No	No	No	No
80006	C5orf44	chromosome 5 open reading frame 44	3.48E-05	No	No	No	Yes	No	Yes	No
3196	TLX2	T-cell leukemia homeobox 2	3.48E-05	No	No	No	Yes	No	No	No
55142	CEP27	centrosomal protein 27kDa	3.49E-05	No	No	Yes	No	No	No	No
80380	PDCD1LG2	programmed cell death 1 ligand 2	3.50E-05	Yes	No	No	No	No	No	No
10081	PDCD7	programmed cell death 7	3.50E-05	No	No	No	No	No	No	No
51106	TFB1M	transcription factor B1, mitochondrial	3.52E-05	NA	No	Yes	No	No	No	No
5048	PAFAH1B1	platelet-activating factor acetylhydrolase, isoform Ib, alpha subunit 45kDa	3.52E-05	No	No	No	Yes	No	No	No
125950	RAVER1	ribonucleoprotein, PTB-binding 1	3.53E-05	No	No	No	Yes	No	No	No
64163	IFRG15	interferon responsive gene 15	3.53E-05	No	Yes	Yes	No	No	No	No
51338	MS4A4A	membrane-spanning 4-domains, subfamily A, member 4	3.54E-05	Yes	No	No	Yes	No	No	No
7108	TM7SF2	transmembrane 7 superfamily member 2	3.54E-05	No	No	No	Yes	No	No	No
83940	TATDN1	TatD DNase domain containing 1	3.56E-05	No	No	Yes	No	No	No	No
84687	PPP1R9B	protein phosphatase 1, regulatory (inhibitor) subunit 9B	3.58E-05	Yes	No	No	Yes	No	No	No
9320	TRIP12	thyroid hormone receptor interactor 12	3.58E-05	Yes	No	No	Yes	No	No	No
130888	FBXO36	F-box protein 36	3.58E-05	No	No	No	Yes	No	No	No
11215	AKAP11	A kinase (PRKA) anchor protein 11	3.58E-05	Yes	No	Yes	No	No	Yes	No
79147	FKRP	fukutin related protein	3.59E-05	No	No	No	No	No	No	No
83538	TTC25	tetratricopeptide repeat domain 25	3.59E-05	No	No	No	Yes	No	No	No
219402	MTIF3	mitochondrial translational initiation factor 3	3.59E-05	No	No	No	Yes	No	No	No
256364	EML3	echinoderm microtubule associated protein like 3	3.59E-05	Yes	No	No	No	No	No	No
6094	ROM1	retinal outer segment membrane protein 1	3.59E-05	No	No	No	No	No	No	No
9967	THRAP3	thyroid hormone receptor associated protein 3	3.59E-05	No	No	No	Yes	No	No	No
81790	RNF170	ring finger protein 170	3.59E-05	No	No	Yes	No	No	No	No
80778	ZNF34	zinc finger protein 34	3.60E-05	No	No	No	Yes	No	No	No
4336	MOBP	myelin-associated oligodendrocyte basic protein	3.60E-05	No	No	No	Yes	No	No	No
353116	RILPL1	Rab interacting lysosomal protein-like 1	3.61E-05	No	No	No	Yes	No	No	No
132949	AASDH	aminoadipate-semialdehyde dehydrogenase	3.62E-05	No	No	Yes	No	No	No	No
55106	SLFN12	schlafen family member 12	3.62E-05	Yes	No	Yes	No	No	No	No
4886	NPY1R	neuropeptide Y receptor Y1	3.62E-05	No	No	No	Yes	No	No	No
10009	ZBTB33	zinc finger and BTB domain containing 33	3.62E-05	No	Yes	Yes	No	No	No	No
744	MPPED2	metallophosphoesterase domain containing 2	3.62E-05	Yes	No	Yes	No	No	No	No
4115	MAGEB4	melanoma antigen family B, 4	3.62E-05	No	No	Yes	No	No	No	No

5438	POLR2I	polymerase (RNA) II (DNA directed) polypeptide I, 14.5kDa	3.64E-05	No	No	Yes	No	No	No	No
51702	PADI3	peptidyl arginine deiminase, type III	3.64E-05	No	No	No	Yes	No	No	No
23023	TMCC1	transmembrane and coiled-coil domain family 1	3.64E-05	No	Yes	Yes	No	No	No	No
6786	STIM1	stromal interaction molecule 1	3.64E-05	Yes	No	No	No	Yes	Yes	Yes
2890	GRIA1	glutamate receptor, ionotropic, AMPA 1	3.64E-05	Yes	No	Yes	No	No	No	No
56667	MUC13	mucin 13, cell surface associated	3.64E-05	No	No	No	No	Yes	No	No
94081	SFXN1	sideroflexin 1	3.65E-05	No	No	Yes	No	No	No	No
221687	RNF182	ring finger protein 182	3.66E-05	No	No	No	Yes	No	No	No
5366	PMAIP1	phorbol-12-myristate-13-acetate-induced protein 1	3.66E-05	No	No	Yes	No	No	No	No
10003	NALAD2	N-acetylated alpha-linked acidic dipeptidase 2	3.66E-05	Yes	No	Yes	No	No	No	No
140735	DYNLL2	dynein, light chain, LC8-type 2	3.66E-05	No	No	No	Yes	No	No	No
119765	OR4B1	olfactory receptor, family 4, subfamily B, member 1	3.67E-05	NA	No	Yes	No	No	No	No
57393	TMEM27	transmembrane protein 27	3.67E-05	No	No	Yes	No	No	No	No
4071	TM4SF1	transmembrane 4 L six family member 1	3.67E-05	No	No	Yes	No	No	No	No
64841	GNPNAT1	glucosamine-phosphate N-acetyltransferase 1	3.67E-05	No	No	Yes	No	No	No	No
51398	C19orf56	chromosome 19 open reading frame 56	3.69E-05	No	No	No	Yes	No	No	No
92259	MRPS36	mitochondrial ribosomal protein S36	3.69E-05	No	No	Yes	No	No	No	No
2766	GMPT	guanosine monophosphate reductase	3.70E-05	No	No	Yes	No	No	No	No
8767	RIPK2	receptor-interacting serine-threonine kinase 2	3.70E-05	No	No	Yes	No	No	No	No
54529	ASNSD1	asparagine synthetase domain containing 1	3.70E-05	No	No	Yes	No	No	No	No
5018	OXA1L	oxidase (cytochrome c) assembly 1-like	3.70E-05	No	No	No	Yes	No	No	No
2800	GOLGA1	golgi autoantigen, golgin subfamily a, 1	3.71E-05	Yes	No	Yes	No	No	No	No
9587	MAD2L1BP	MAD2L1 binding protein	3.71E-05	No	No	No	No	No	Yes	No
56853	BRUNOL4	bruno-like 4, RNA binding protein (Drosophila)	3.71E-05	No	No	No	Yes	No	No	No
9310	ZNF235	zinc finger protein 235	3.72E-05	Yes	No	No	Yes	No	No	No
3434	IFIT1	interferon-induced protein with tetratricopeptide repeats 1	3.73E-05	Yes	Yes	Yes	No	No	No	No
6895	TARBP2	TAR (HIV-1) RNA binding protein 2	3.76E-05	No	No	No	No	Yes	No	No
55531	ELMOD1	ELMO/CEP-12 domain containing 1	3.78E-05	No	No	Yes	No	No	No	No
1649	DDIT3	DNA-damage-inducible transcript 3	3.79E-05	No	No	Yes	No	No	Yes	Yes
114785	MBD6	methyl-CpG binding domain protein 6	3.79E-05	No	No	Yes	No	No	Yes	No
10142	AKAP9	A kinase (PRKA) anchor protein (yo8ao) 9	3.82E-05	Yes	No	Yes	No	No	No	No
54957	TXNL4B	thioredoxin-like 4B	3.83E-05	No	No	Yes	No	No	No	No
253143	C22orf30	chromosome 22 open reading frame 30	3.83E-05	No	Yes	No	Yes	No	No	No
199720	GGN	gametogenetin	3.84E-05	No	No	No	Yes	No	No	No

81559	TRIM11	tripartite motif-containing 11	3.84E-05	No	No	No	Yes	No	No	No
2178	FANCE	Fanconi anemia, complementation group E	3.84E-05	No	No	Yes	No	No	No	No
26046	ZNF294	zinc finger protein 294	3.85E-05	No	No	Yes	No	No	No	No
7101	NR2E1	nuclear receptor subfamily 2, group E, member 1	3.86E-05	Yes	No	No	Yes	No	No	No
10892	MALT1	mucosa associated lymphoid tissue lymphoma translocation gene 1	3.87E-05	No	No	Yes	No	No	Yes	No
2572	GAD2	glutamate decarboxylase 2 (pancreatic islets and brain, 65kDa)	3.88E-05	No	No	Yes	No	No	No	No
7342	UBP1	upstream binding protein 1 (LBP-1a)	3.89E-05	No	No	Yes	No	No	No	No
3191	HNRNPL	heterogeneous nuclear ribonucleoprotein L	3.89E-05	No	No	Yes	No	No	No	No
1791	DNTT	deoxynucleotidyltransferase, terminal	3.89E-05	No	No	No	Yes	No	No	No
26112	CDC69	coiled-coil domain containing 69	3.89E-05	No	No	No	No	No	No	No
4659	PPP1R12A	protein phosphatase 1, regulatory (inhibitor) subunit 12A	3.89E-05	No	No	No	Yes	No	Yes	No
9244	CRLF1	cytokine receptor-like factor 1	3.91E-05	No	No	Yes	No	No	No	No
653140	FLJ30851	hypothetical LOC653140	3.91E-05	No	No	No	No	No	No	No
375189	PFN4	profilin family, member 4	3.91E-05	NA	No	No	No	No	No	No
5982	RFC2	replication factor C (activator 1) 2, 40kDa	3.91E-05	No	No	Yes	No	No	Yes	No
23190	UBXD2	UBX domain containing 2	3.92E-05	No	No	Yes	No	No	No	No
27250	PDCD4	programmed cell death 4 (neoplastic transformation inhibitor)	3.93E-05	Yes	Yes	Yes	No	No	No	No
79012	CAMKV	CaM kinase-like vesicle-associated	3.93E-05	No	No	Yes	No	No	No	No
4217	MAP3K5	mitogen-activated protein kinase kinase kinase 5	3.94E-05	Yes	Yes	Yes	No	No	No	No
820	CAMP	cathelicidin antimicrobial peptide	3.95E-05	No	No	Yes	No	No	No	No
3458	IFNG	interferon, gamma	3.96E-05	No	No	Yes	No	No	No	No
55825	PECR	peroxisomal trans-2-enoyl-CoA reductase	3.96E-05	Yes	No	Yes	No	No	No	No
55299	BXDC2	brix domain containing 2	3.97E-05	No	No	No	Yes	No	No	No
3420	IDH3B	isocitrate dehydrogenase 3 (NAD+) beta	3.97E-05	No	No	Yes	No	No	Yes	No
5168	ENPP2	ectonucleotide pyrophosphatase/phosphodiesterase 2 (autotaxin)	3.97E-05	No	No	Yes	No	No	No	No
6224	RPS20	ribosomal protein S20	3.99E-05	Yes	No	Yes	No	No	No	No
27122	DKK3	dickkopf homolog 3 (Xenopus laevis)	3.99E-05	Yes	No	No	No	Yes	No	No
348378	FAM159A	family with sequence similarity 159, member A	4.01E-05	Yes	No	No	No	No	No	No
3925	STMN1	stathmin 1/ncoprotein 18	4.01E-05	No	No	No	No	No	No	No
1244	ABCC2	ATP-binding cassette, sub-family C (CFTR/MRP), member 2	4.01E-05	No	No	Yes	No	No	No	No
10637	LEFTY1	left-right determination factor 1	4.02E-05	No	No	No	No	Yes	No	No
51176	LEF1	lymphoid enhancer-binding factor 1	4.04E-05	Yes	No	Yes	No	No	No	No
387856	LOC387856	similar to expressed sequence A1836003	4.06E-05	No	No	No	Yes	No	No	No
5020	OXT	oxytocin, prepro- (neurophysin I)	4.06E-05	No	No	No	No	No	No	No

93183	PIGM	phosphatidylinositol glycan anchor biosynthesis, class M	4.06E-05	No	No	No	Yes	No	No	No
10349	ABCA10	ATP-binding cassette, sub-family A (ABC1), member 10	4.07E-05	No	No	Yes	No	No	No	No
121551	BTBD11	BTB (POZ) domain containing 11	4.07E-05	No	No	No	Yes	No	No	No
55795	PCID2	PCI domain containing 2	4.07E-05	No	No	Yes	No	No	No	No
1500	CTNND1	catenin (cadherin-associated protein), delta 1	4.07E-05	Yes	No	No	Yes	No	Yes	Yes
2006	ELN	elastin (supravalvular aortic stenosis, Williams-Beuren syndrome)	4.07E-05	No	No	No	Yes	No	No	No
2752	GLUL	glutamate-aminonia ligase (glutamine synthetase)	4.08E-05	No	No	No	Yes	No	No	No
9903	KLHL21	kelch-like 21 (Drosophila)	4.08E-05	Yes	No	No	Yes	No	No	No
148479	PHF13	PHD finger protein 13	4.08E-05	No	No	Yes	No	No	No	No
10653	SPINT2	serine peptidase inhibitor, Kunitz type, 2	4.09E-05	No	No	No	No	No	No	No
2072	ERCC4	excision repair cross-complementing rodent repair deficiency, complementation group 4	4.10E-05	No	No	Yes	No	No	No	No
687	KLF9	Kruppel-like factor 9	4.10E-05	Yes	No	Yes	No	No	No	No
3708	ITPR1	inositol 1,4,5-triphosphate receptor, type 1	4.10E-05	No	No	Yes	No	No	No	No
4715	NDUFB9	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 9, 22kDa	4.11E-05	Yes	No	Yes	No	No	No	No
56659	KCNK13	potassium channel, subfamily K, member 13	4.13E-05	Yes	No	No	Yes	No	No	No
10576	CCT2	chaperonin containing TCP1, subunit 2 (beta)	4.17E-05	No	No	Yes	No	No	No	No
1767	DNAH5	dynein, axonemal, heavy chain 5	4.17E-05	No	Yes	Yes	No	No	No	No
10021	HCN4	hyperpolarization activated cyclic nucleotide-gated potassium channel 4	4.17E-05	No	No	No	No	No	No	No
203562	TMEM31	transmembrane protein 31	4.17E-05	No	No	No	Yes	No	No	No
10302	SNAPC5	small nuclear RNA activating complex, polypeptide 5, 19kDa	4.18E-05	No	No	Yes	No	No	No	No
7181	NR2C1	nuclear receptor subfamily 2, group C, member 1	4.18E-05	Yes	No	Yes	No	No	No	No
158506	ZNF645	zinc finger protein 645	4.18E-05	No	No	Yes	No	No	No	No
23384	SPECC1L	SPECC1-like	4.18E-05	No	No	Yes	No	No	No	No
246269	LACE1	lactation elevated 1	4.19E-05	No	No	Yes	No	No	Yes	No
318	NUDT2	nudix (nucleoside diphosphate linked moiety X)-type motif 2	4.21E-05	No	No	Yes	No	No	No	No
51646	YPEL5	yippee-like 5 (Drosophila)	4.22E-05	No	No	Yes	No	No	Yes	No
3175	ONECUT1	one cut homeobox 1	4.22E-05	No	No	Yes	No	No	No	No
3956	LGALS1	lectin, galactoside-binding, soluble, 1 (galectin 1)	4.23E-05	No	No	No	Yes	No	No	No
4862	NPAS2	neuronal PAS domain protein 2	4.24E-05	Yes	No	No	Yes	No	No	No
80005	DOCK5	dedicator of cytokinesis 5	4.25E-05	Yes	No	Yes	No	No	No	No
7320	UBE2B	ubiquitin-conjugating enzyme E2B (RAD6 homolog)	4.26E-05	Yes	No	No	No	Yes	No	No
51265	CDKL3	cyclin-dependent kinase-like 3	4.26E-05	No	No	No	No	Yes	No	No
5858	PZP	pregnancy-zone protein	4.26E-05	No	No	Yes	No	No	No	No
2995	GYPC	glycophorin C (Gerbich blood group)	4.27E-05	No	No	No	No	No	No	No

202333	CMYA5	cardiomyopathy associated 5	4.28E-05	No	No	Yes	No	No	No	No
23398	PPWD1	peptidylprolyl isomerase domain and WD repeat containing 1	4.29E-05	No	No	Yes	No	No	Yes	No
962	CD48	CD48 molecule	4.32E-05	Yes	No	No	Yes	No	No	No
84961	FBXL20	F-box and leucine-rich repeat protein 20	4.32E-05	Yes	No	Yes	No	No	No	No
369	ARAF	v-raf murine sarcoma 3611 viral oncogene homolog	4.33E-05	No	No	No	No	Yes	No	No
79689	STEAP4	STEAP family member 4	4.33E-05	No	No	Yes	No	No	No	No
3376	IARS	isoleucyl-tRNA synthetase	4.33E-05	No	No	No	Yes	No	No	No
196074	METT5D1	methyltransferase 5 domain containing 1	4.34E-05	No	No	Yes	No	No	No	No
3460	IFNGR2	interferon gamma receptor 2 (interferon gamma transducer 1)	4.34E-05	No	No	Yes	No	No	No	No
2950	GSTP1	glutathione S-transferase pi	4.37E-05	No	No	No	No	Yes	No	No
9978	RBX1	ring-box 1	4.37E-05	No	No	No	No	No	No	No
51540	SCLY	selenocysteine lyase	4.37E-05	Yes	No	No	No	No	No	No
89885	FATE1	fetal and adult testis expressed 1	4.39E-05	No	No	Yes	No	No	No	No
64121	RRAGC	Ras-related GTP binding C	4.40E-05	No	Yes	No	Yes	No	No	No
84698	CAPS2	calcyphosine 2	4.40E-05	No	No	Yes	No	No	No	No
9922	IQSEC1	IQ motif and Sec7 domain 1	4.42E-05	Yes	No	No	No	No	No	No
286554	BCORL2	BCL6 co-repressor-like 2	4.43E-05	NA	No	Yes	No	No	No	No
155066	ATP6V0E2	ATPase, H+-transporting V0 subunit e2	4.44E-05	No	No	Yes	No	No	No	No
51316	PLAC8	placenta-specific 8	4.45E-05	Yes	No	Yes	No	No	Yes	No
6576	SLC25A1	solute carrier family 25 (mitochondrial carrier, citrate transporter), member 1	4.48E-05	No	No	Yes	No	No	No	No
340665	CYP26C1	cytochrome P450, family 26, subfamily C, polypeptide 1	4.49E-05	NA	No	No	Yes	No	No	No
5915	RARB	retinoic acid receptor, beta	4.50E-05	No	No	No	Yes	No	No	No
6543	SLC8A2	solute carrier family 8 (sodium-calcium exchanger), member 2	4.51E-05	No	No	No	Yes	No	No	No
6128	RPL6	ribosomal protein L6	4.52E-05	No	No	No	No	Yes	No	No
201175	LOC201175	hypothetical protein LOC201175	4.53E-05	Yes	No	No	Yes	No	No	No
3371	TNC	tenascin C (hexabrachion)	4.53E-05	Yes	No	Yes	No	No	No	No
2169	FABP2	fatty acid binding protein 2, intestinal	4.53E-05	No	No	Yes	No	No	No	No
9416	DDX23	DEAD (Asp-Glu-Ala-Asp) box polypeptide 23	4.54E-05	No	No	Yes	No	No	No	No
7350	UCP1	uncoupling protein 1 (mitochondrial, proton carrier)	4.54E-05	No	No	No	No	Yes	No	No
7846	TUBA1A	tubulin, alpha 1a	4.57E-05	Yes	No	No	Yes	No	No	No
5007	OSBP	oxysterol binding protein	4.57E-05	No	No	Yes	No	No	No	No
7464	CORO2A	coronin, actin binding protein, 2A	4.58E-05	No	No	No	No	No	No	No
24145	PANX1	pannexin 1	4.58E-05	Yes	Yes	No	Yes	No	No	No
9425	CDYL	chromodomain protein, Y-like	4.59E-05	Yes	Yes	Yes	No	No	No	No

51115	FAM2B	family with sequence similarity 82, member B	4.59E-05	No	No	Yes	No	No	No	No
131377	KBTBD5	kelch repeat and BTB (POZ) domain containing 5	4.61E-05	No	No	Yes	No	No	No	No
55105	GPATCH2	G patch domain containing 2	4.61E-05	No	No	Yes	No	No	No	No
54433	NOLA1	nucleolar protein family A, member 1 (H/ACA small nucleolar RNPs)	4.62E-05	No	No	Yes	No	No	No	No
55180	LINS1	lines homolog 1 (Drosophila)	4.62E-05	Yes	No	No	Yes	No	Yes	No
5413	SEPT5	septin 5	4.62E-05	NA	No	No	No	No	No	No
10798	ORS1	olfactory receptor, family 5, subfamily 1, member 1	4.62E-05	No	No	No	Yes	No	No	No
5777	PTPN6	protein tyrosine phosphatase, non-receptor type 6	4.64E-05	Yes	No	No	Yes	No	No	No
5980	REV3L	REV3-like, catalytic subunit of DNA polymerase zeta (yeast)	4.64E-05	Yes	No	Yes	No	No	No	No
11211	FZD10	frizzled homolog 10 (Drosophila)	4.66E-05	No	No	No	Yes	No	No	No
4673	NAP1L1	nucleosome assembly protein 1-like 1	4.66E-05	No	No	Yes	No	No	No	No
51380	CSAD	cysteine sulfonic acid decarboxylase	4.68E-05	No	No	No	No	No	Yes	No
4288	MK167	antigen identified by monoclonal antibody Ki-67	4.68E-05	No	No	Yes	No	No	No	No
221908	C7orf47	chromosome 7 open reading frame 47	4.69E-05	No	No	No	Yes	No	No	No
26146	TRAF3IP1	TNF receptor-associated factor 3 interacting protein 1	4.70E-05	No	No	No	No	No	No	No
2191	FAP	fibroblast activation protein, alpha	4.70E-05	No	No	Yes	No	No	No	No
2149	F2R	coagulation factor II (thrombin) receptor	4.70E-05	Yes	No	Yes	No	No	No	No
9513	FXR2	fragile X mental retardation, autosomal homolog 2	4.72E-05	No	No	No	Yes	No	No	No
135932	TMEM139	transmembrane protein 139	4.75E-05	No	No	Yes	No	No	No	No
26005	C2CD3	C2 calcium-dependent domain containing 3	4.75E-05	No	No	Yes	No	No	No	No
2329	FMO4	flavin containing monooxygenase 4	4.75E-05	No	No	Yes	No	No	No	No
50805	IRX4	iroquois homeobox 4	4.75E-05	No	No	No	Yes	No	No	No
81619	TSPAN14	tetraspanin 14	4.75E-05	No	No	No	Yes	No	No	No
7325	UBE2E2	ubiquitin-conjugating enzyme E2E 2 (UBC4/5 homolog, yeast)	4.76E-05	Yes	No	Yes	No	No	Yes	No
8641	PCDHGB4	protocadherin gamma subfamily B, 4	4.78E-05	NA	No	Yes	No	No	No	No
223082	ZNRF2	zinc and ring finger 2	4.79E-05	No	No	No	No	No	No	No
114805	GALNT13	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 13 (GalNAc-T13)	4.83E-05	No	No	Yes	No	No	No	No
51350	KRT76	keratin 76	4.86E-05	No	No	No	No	No	No	No
2582	GALE	UDP-galactose-4-epimerase	4.87E-05	No	No	Yes	No	No	No	No
55240	STEAP3	STEAP family member 3	4.89E-05	No	No	No	Yes	No	No	No
1477	CSTF1	cleavage stimulation factor, 3' pre-RNA, subunit 1, 50kDa	4.89E-05	No	No	Yes	No	No	Yes	No
2256	FGF11	fibroblast growth factor 11	4.90E-05	No	No	Yes	No	No	No	No
22835	ZFP30	zinc finger protein 30 homolog (mouse)	4.90E-05	No	No	Yes	No	No	Yes	No
84268	RPAIN	RPA interacting protein	4.91E-05	No	No	No	Yes	No	Yes	No

8785	MATN4	matrilin 4	4.92E-05	No	No	Yes	No	No	No	No
1029	CDKN2A	cyclin-dependent kinase inhibitor 2A (melanoma, p16, inhibits CDK4)	4.95E-05	No	No	No	Yes	No	No	No
7332	UBE2L3	ubiquitin-conjugating enzyme E2L 3	4.95E-05	No	No	Yes	No	No	No	No
64976	MRPL40	mitochondrial ribosomal protein L40	4.97E-05	No	No	No	Yes	No	No	No
79158	GNPTAB	N-acetylglucosamine-1-phosphate transferase, alpha and beta subunits	4.98E-05	Yes	Yes	No	Yes	No	No	No
9821	RB1CC1	RB1-inducible coiled-coil 1	4.98E-05	No	No	Yes	No	No	No	No
57599	WDR48	WD repeat domain 48	4.98E-05	No	No	Yes	No	No	No	No
9139	CBFA2T2	core-binding factor, runt domain, alpha subunit 2; translocated to, 2	4.99E-05	No	No	Yes	No	No	No	No
10785	WDR4	WD repeat domain 4	4.99E-05	No	No	Yes	No	No	No	No
6482	ST3GAL1	ST3 beta-galactoside alpha-2,3-sialyltransferase 1	5.00E-05	Yes	No	No	Yes	No	Yes	Yes
116441	TM4SF18	transmembrane 4 L six family member 18	5.00E-05	No	No	No	No	No	No	No
9615	GDA	guanine deaminase	5.00E-05	No	No	Yes	No	No	No	No
10885	WDR3	WD repeat domain 3	5.01E-05	No	Yes	No	No	Yes	Yes	No
91408	BTF3L4	basic transcription factor 3-like 4	5.02E-05	Yes	No	No	No	No	Yes	No
64743	WDR13	WD repeat domain 13	5.03E-05	No	No	Yes	No	No	No	No
10844	TUBGCP2	tubulin, gamma complex associated protein 2	5.03E-05	No	No	Yes	No	No	No	No
5728	PTEN	phosphatase and tensin homolog (mutated in multiple advanced cancers 1)	5.04E-05	Yes	No	No	No	No	Yes	No
387694	SH2D4B	SH2 domain containing 4B	5.04E-05	No	No	No	No	Yes	No	No
26234	FBXL5	F-box and leucine-rich repeat protein 5	5.04E-05	No	No	Yes	No	No	Yes	No
127262	TPRG1L	tumor protein p63 regulated 1-like	5.04E-05	No	No	Yes	No	No	No	No
222643	UNC5CL	unc-5 homolog C (C. elegans)-like	5.04E-05	No	No	No	Yes	No	No	No
813	CALU	calumenin	5.06E-05	No	No	Yes	No	No	No	No
1468	CTBP2	C-terminal binding protein 2	5.07E-05	No	No	No	No	No	No	No
283847	CDC79	coiled-coil domain containing 79	5.07E-05	Yes	No	Yes	No	No	No	No
283471	TMPRSS12	transmembrane protease, serine 12	5.09E-05	Yes	No	Yes	No	No	No	No
11147	HHLA3	HERV-H LTR-associating 3	5.09E-05	Yes	No	Yes	No	No	No	No
23649	POLA2	polymerase (DNA directed), alpha 2 (70kD subunit)	5.10E-05	No	No	Yes	No	No	No	No
6232	RPS27	ribosomal protein S27 (metalloprotein 1)	5.11E-05	Yes	No	Yes	No	No	No	No
5872	RAB13	RAB13, member RAS oncogene family	5.11E-05	No	No	Yes	No	No	No	No
148170	CDC42EP5	CDC42 effector protein (Rho GTPase binding) 5	5.11E-05	Yes	No	No	Yes	No	No	No
2928	GSC2	goosecoid homeobox 2	5.12E-05	No	No	No	No	No	No	No
522	ATP5J	ATP synthase, H+ transporting, mitochondrial FO complex, subunit F6	5.13E-05	No	No	No	No	Yes	No	No
147011	PROCA1	proline-rich cyclin A1-interacting protein	5.13E-05	No	No	Yes	No	No	No	No
334	APLP2	amyloid beta (A4) precursor-like protein 2	5.15E-05	No	Yes	Yes	No	No	No	No

692199	SNORD84	small nucleolar RNA, C/D box 84	5.18E-05	NA	No	No	Yes	No	No	No
3655	ITGA6	integrin, alpha 6	5.18E-05	Yes	No	Yes	No	No	No	No
60386	SLC25A19	solute carrier family 25 (mitochondrial thiamine pyrophosphate carrier), member 19	5.18E-05	No	No	Yes	No	No	No	No
91272	FAM44B	family with sequence similarity 44, member B	5.19E-05	No	No	Yes	No	No	No	No
4712	NDUFB6	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 6, 17kDa	5.19E-05	No	No	Yes	No	No	No	No
7490	WT1	Wilms tumor 1	5.22E-05	No	No	Yes	No	No	No	No
51742	ARID4B	AT rich interactive domain 4B (RBP1-like)	5.22E-05	No	No	Yes	No	No	No	No
157769	FAM91A1	family with sequence similarity 91, member A1	5.23E-05	No	No	Yes	No	No	Yes	No
23524	SRRM2	serine/arginine repetitive matrix 2	5.23E-05	No	No	No	Yes	No	No	No
5305	PIP4K2A	phosphatidylinositol-5-phosphate 4-kinase, type II, alpha	5.24E-05	No	No	Yes	No	No	Yes	No
8541	PPF1A3	protein tyrosine phosphatase, receptor type, I polypeptide (PTPRF), interacting protein (Iprin), alpha 3	5.26E-05	No	No	No	Yes	No	No	No
7296	TXNRD1	thioredoxin reductase 1	5.27E-05	No	No	Yes	No	No	No	No
1119	CHKA	choline kinase alpha	5.29E-05	No	No	No	Yes	No	No	No
11317	RBPJL	recombination signal binding protein for immunoglobulin kappa J region-like	5.31E-05	No	No	Yes	No	No	No	No
5770	PTPN1	protein tyrosine phosphatase, non-receptor type 1	5.31E-05	Yes	No	No	No	No	No	No
4090	SMAD5	SMAD family member 5	5.31E-05	No	No	Yes	No	No	No	No
54870	QRICH1	glutamine-rich 1	5.31E-05	No	No	Yes	No	No	No	No
6181	RPLP2	ribosomal protein, large, P2	5.32E-05	No	No	No	No	No	No	No
55367	LRDD	leucine-rich repeats and death domain containing	5.32E-05	No	No	No	No	No	No	No
10483	SEC23B	Sec23 homolog B (S. cerevisiae)	5.32E-05	No	No	Yes	No	No	No	No
10523	CHERP	calcium homeostasis endoplasmic reticulum protein	5.32E-05	No	No	No	Yes	No	No	No
54518	APBB1IP	amyloid beta (A4) precursor protein-binding, family B, member 1 interacting protein	5.33E-05	No	No	Yes	No	No	No	No
79154	MGC4172	short-chain dehydrogenase/reductase	5.33E-05	No	No	No	No	No	No	No
3761	KCNJ4	potassium inwardly-rectifying channel, subfamily J, member 4	5.34E-05	Yes	No	No	No	No	No	No
5063	PAK3	p21 protein (Cdc42/Rac)-activated kinase 3	5.34E-05	No	No	Yes	No	No	No	No
54345	SOX18	SRY (sex determining region Y)-box 18	5.35E-05	Yes	No	No	No	No	No	No
8539	API5	apoptosis inhibitor 5	5.35E-05	No	No	Yes	No	No	No	No
84826	SFT2D3	SFT2 domain containing 3	5.36E-05	No	No	No	Yes	No	Yes	No
9118	INA	intermixin neuronal intermediate filament protein, alpha	5.36E-05	No	No	No	Yes	No	No	No
9818	NUPL1	nucleoporin like 1	5.36E-05	No	No	No	No	Yes	No	No
8507	ENC1	ectodermal-neural cortex (with BTB-like domain)	5.37E-05	Yes	Yes	Yes	No	No	No	No
25930	PTPN23	protein tyrosine phosphatase, non-receptor type 23	5.37E-05	Yes	No	Yes	No	No	No	No
63979	FIGNL1	figletin-like 1	5.39E-05	No	No	Yes	No	No	No	No
6675	UAP1	UDP-N-acetylglucosamine pyrophosphorylase 1	5.39E-05	No	No	Yes	No	No	No	No

161829	EXDL1	exonuclease 3'-5' domain-like 1	5.40E-05	No	No	Yes	No	No	No	No
28998	MRPL13	mitochondrial ribosomal protein L13	5.42E-05	No	No	No	Yes	No	Yes	No
51661	FKBP7	FK506 binding protein 7	5.42E-05	Yes	No	No	Yes	No	Yes	No
10319	LAMC3	laminin, gamma 3	5.43E-05	No	No	Yes	No	No	No	No
10541	ANP32B	acidic (leucine-rich) nuclear phosphoprotein 32 family, member B	5.44E-05	No	No	No	Yes	No	No	No
7408	VASP	vasodilator-stimulated phosphoprotein	5.45E-05	No	No	No	No	Yes	No	No
4731	NDUFV3	NADH dehydrogenase (ubiquinone) flavoprotein 3, 10kDa	5.45E-05	No	No	Yes	No	No	No	No
1565	CYP2D6	cytochrome P450, family 2, subfamily D, polypeptide 6	5.47E-05	NA	No	Yes	No	No	No	No
388536	ZNF790	zinc finger protein 790	5.47E-05	NA	No	Yes	No	No	No	No
3363	HTR7	5-hydroxytryptamine (serotonin) receptor 7 (adenylate cyclase-coupled)	5.48E-05	No	No	Yes	No	No	No	No
153572	IRX2	irquois homeobox 2	5.48E-05	No	No	No	Yes	No	No	No
23517	SKIV2L2	superkiller viralicidic activity 2-like 2 (S. cerevisiae)	5.48E-05	No	No	Yes	No	No	Yes	No
9332	CD163	CD163 molecule	5.50E-05	No	No	Yes	No	No	No	No
29803	REPIN1	replication initiator 1	5.50E-05	No	No	Yes	No	No	Yes	No
91612	CHURC1	churchill domain containing 1	5.50E-05	No	No	Yes	No	No	No	No
54106	TLR9	tolllike receptor 9	5.50E-05	Yes	No	No	No	No	No	No
3732	CD82	CD82 molecule	5.50E-05	Yes	No	No	No	No	No	No
54707	GPN2	GPN-loop GTPase 2	5.51E-05	No	No	Yes	No	No	No	No
23788	MTCH2	mitochondrial carrier homolog 2 (C. elegans)	5.52E-05	No	No	No	Yes	No	No	No
22839	DLGAP4	discs, large (Drosophila) homolog-associated protein 4	5.54E-05	Yes	No	No	Yes	No	No	No
283316	CD163L1	CD163 molecule-like 1	5.54E-05	No	No	Yes	No	No	No	No
4892	NRAP	nebulin-related anchoring protein	5.54E-05	Yes	No	Yes	No	No	No	No
377	ARF3	ADP-ribosylation factor 3	5.56E-05	No	No	No	No	Yes	Yes	Yes
84436	ZNF528	zinc finger protein 528	5.56E-05	No	No	Yes	No	No	No	No
11056	DDX52	DEAD (Asp-Glu-Ala-Asp) box polypeptide 52	5.58E-05	Yes	No	No	Yes	No	No	No
3238	HOXD12	homeobox D12	5.58E-05	No	No	Yes	No	No	No	No
53942	CNTN5	contactin 5	5.59E-05	No	No	No	Yes	No	No	No
22898	DENND3	DENNMADD domain containing 3	5.63E-05	No	Yes	Yes	No	No	No	No
166785	MMAA	methylmalonic aciduria (cobalamin deficiency) cblA type	5.64E-05	Yes	Yes	Yes	No	No	No	No
23094	SIPA1L3	signal-induced proliferation-associated 1 like 3	5.65E-05	Yes	No	Yes	No	No	No	No
10114	HIPK3	homeodomain interacting protein kinase 3	5.66E-05	No	No	No	Yes	No	No	No
80224	NUBPL	nucleotide binding protein-like	5.66E-05	No	No	No	Yes	No	No	No
4924	NUCB1	nucleobindin 1	5.67E-05	Yes	No	Yes	No	No	No	No
7288	TULP2	tubby like protein 2	5.67E-05	No	No	Yes	No	No	No	No

9462	RASAL2	RAS protein activator like 2	5.68E-05	Yes	No	Yes	No	No	Yes	No
2182	ACSL4	acyl-CoA synthetase long-chain family member 4	5.68E-05	No	No	Yes	No	No	No	No
81472	OR2C3	olfactory receptor, family 2, subfamily C, member 3	5.69E-05	No	No	Yes	No	No	No	No
2286	FKBP2	FK506 binding protein 2, 13kDa	5.69E-05	No	No	No	No	Yes	No	No
6158	RPL28	ribosomal protein L28	5.70E-05	No	No	No	No	No	No	No
5179	PENK	proenkephalin	5.70E-05	No	No	No	Yes	No	No	No
3237	HOXD11	homeobox D11	5.71E-05	No	No	Yes	No	No	No	No
51375	SNX7	sorting nexin 7	5.74E-05	No	No	Yes	No	No	No	No
4248	MGAT3	mannosyl (beta-1,4-)-glycoprotein beta-1,4-N-acetylglucosaminyltransferase	5.75E-05	Yes	No	No	No	No	No	No
252867	MDM1	Mitochondrial deafness modifier 1	5.75E-05	NA	No	Yes	No	No	No	No
829	CAPZA1	capping protein (actin filament) muscle Z-line, alpha 1	5.76E-05	No	No	Yes	No	No	Yes	No
60559	SPCS3	signal peptidase complex subunit 3 homolog (S. cerevisiae)	5.78E-05	No	No	Yes	No	No	No	No
54798	DCHS2	dachsous 2 (Drosophila)	5.78E-05	Yes	No	No	No	Yes	No	No
9949	AMMECR1	Alport syndrome, mental retardation, midface hypoplasia and elliptocytosis chromosomal region, gene 1	5.81E-05	Yes	No	No	No	Yes	Yes	No
4215	MAP3K3	mitogen-activated protein kinase kinase kinase 3	5.82E-05	Yes	No	Yes	No	No	No	No
8620	NPPF	neuropeptide FF-amide peptide precursor	5.84E-05	No	No	No	Yes	No	No	No
55917	CTTNBP2NL	CTTNBP2 N-terminal like	5.85E-05	Yes	No	Yes	No	No	No	No
23528	ZNF281	zinc finger protein 281	5.85E-05	No	No	No	No	No	Yes	No
10144	FAM13A1	family with sequence similarity 13, member A1	5.85E-05	No	No	Yes	No	No	No	No
114791	TUBGCP5	tubulin, gamma complex associated protein 5	5.85E-05	No	No	No	Yes	No	Yes	No
493911	PHOSPHO2	phosphatase, orphan 2	5.87E-05	Yes	No	Yes	No	No	No	No
6480	ST6GAL1	ST6 beta-galactosamide alpha-2,6-sialyltransferase 1	5.88E-05	No	No	No	No	No	No	No
171484	FAM9C	family with sequence similarity 9, member C	5.89E-05	No	No	Yes	No	No	No	No
83475	DOHH	deoxyhypusine hydroxylase/monooxygenase	5.90E-05	Yes	No	Yes	No	No	No	No
26228	STAP1	signal transducing adaptor family member 1	5.90E-05	No	No	No	Yes	No	No	No
1515	CTSL2	cathepsin L2	5.90E-05	No	No	No	Yes	No	No	No
8085	MLL2	myeloid/lymphoid or mixed-lineage leukemia 2	5.92E-05	Yes	No	No	Yes	No	No	No
5983	RFC3	replication factor C (activator 1) 3, 38kDa	5.94E-05	No	No	Yes	No	No	No	No
29926	GMPPA	GDP-mannose pyrophosphorylase A	5.94E-05	No	No	No	Yes	No	No	No
219970	GLYATL2	glycine-N-acyltransferase-like 2	5.95E-05	No	No	Yes	No	No	No	No
55034	MOCOS	molybdenum cofactor sulfurase	5.96E-05	No	No	Yes	No	No	No	No
54482	CCDC76	coiled-coil domain containing 76	5.97E-05	No	No	Yes	No	No	Yes	No
9681	DEPDC5	DEP domain containing 5	5.97E-05	No	No	Yes	No	No	No	No
160140	C11orf65	chromosome 11 open reading frame 65	5.97E-05	No	No	Yes	No	No	No	No

51307	FAM53C	family with sequence similarity 53, member C	5.97E-05	No	No	Yes	No	No	Yes	No
995	CDC25C	cell division cycle 25 homolog C (S. pombe)	5.97E-05	No	No	Yes	No	No	No	No
28978	TMEM14A	transmembrane protein 14A	5.97E-05	No	No	No	Yes	No	No	No
84108	PCGF6	polycomb group ring finger 6	5.99E-05	No	No	Yes	No	No	No	No
2180	ACSL1	acyl-CoA synthetase long-chain family member 1	5.99E-05	Yes	No	No	Yes	No	No	No
80230	RUFY1	RUN and FYVE domain containing 1	6.00E-05	No	No	Yes	No	No	No	No
114784	CSMD2	CUB and Sushi multiple domains 2	6.00E-05	No	No	Yes	No	No	No	No
51303	FKBP11	FK506 binding protein 11, 19 kDa	6.01E-05	Yes	No	No	No	Yes	No	No
113178	SCAMP4	secretory carrier membrane protein 4	6.01E-05	Yes	No	No	Yes	No	No	No
3400	ID4	inhibitor of DNA binding 4, dominant negative helix-loop-helix protein	6.01E-05	No	Yes	Yes	No	No	No	No
165215	FAM171B	family with sequence similarity 171, member B	6.02E-05	No	No	Yes	No	No	No	No
154810	AMOTL1	angiomin like 1	6.06E-05	No	No	Yes	No	No	No	No
241	ALOX5AP	arachidonate 5-lipoxygenase-activating protein	6.07E-05	No	No	No	Yes	No	No	No
5156	PDGFRA	platelet-derived growth factor receptor, alpha polypeptide	6.07E-05	No	No	No	Yes	No	No	No
8635	RNASET2	ribonuclease T2	6.08E-05	Yes	No	No	No	No	No	No
6793	STK10	serine/threonine kinase 10	6.08E-05	Yes	No	Yes	No	No	No	No
54521	WDR44	WD repeat domain 44	6.08E-05	Yes	No	No	Yes	No	No	No
2539	G6PD	glucose-6-phosphate dehydrogenase	6.08E-05	No	No	No	No	No	No	No
622	BDH1	3-hydroxybutyrate dehydrogenase, type 1	6.08E-05	No	No	Yes	No	No	No	No
55753	OGDHL	oxoglutarate dehydrogenase-like	6.09E-05	No	No	Yes	No	No	No	No
9464	HAND2	heart and neural crest derivatives expressed 2	6.09E-05	No	No	No	Yes	No	No	No
8202	NCOA3	nuclear receptor coactivator 3	6.10E-05	No	No	No	No	Yes	No	No
55259	CASC1	cancer susceptibility candidate 1	6.10E-05	No	No	Yes	No	No	Yes	No
53981	CPSF2	cleavage and polyadenylation specific factor 2, 100kDa	6.11E-05	No	No	No	Yes	No	Yes	No
129080	EMID1	EMI domain containing 1	6.15E-05	No	No	No	Yes	No	No	No
7334	UBE2N	ubiquitin-conjugating enzyme E2N (UBC13 homolog, yeast)	6.16E-05	No	No	Yes	No	No	Yes	No
10818	FRS2	fibroblast growth factor receptor substrate 2	6.16E-05	Yes	No	No	Yes	No	No	No
55891	LENP	lens epithelial protein	6.16E-05	No	No	No	Yes	No	No	No
60509	AGBL5	ATP/GTP binding protein-like 5	6.16E-05	No	No	Yes	No	No	Yes	No
9143	SYNGR3	synaptogyrin 3	6.17E-05	Yes	No	No	Yes	No	Yes	No
10236	HNRNPR	heterogeneous nuclear ribonucleoprotein R	6.17E-05	No	No	No	No	No	No	No
3725	JUN	jun oncogene	6.20E-05	Yes	No	Yes	No	No	Yes	Yes
79658	ARHGAP10	Rho GTPase activating protein 10	6.22E-05	No	No	No	Yes	No	No	No
6514	SLC2A2	solute carrier family 2 (facilitated glucose transporter), member 2	6.24E-05	No	No	No	Yes	No	No	No

1495	CTNNA1	catenin (cadherin-associated protein), alpha 1, 102kDa	6.25E-05	Yes	No	No	Yes	No	No	No
10554	AGPAT1	1-acylglycerol-3-phosphate O-acyltransferase 1 (lysophosphatidic acid acyltransferase, alpha)	6.25E-05	No	No	No	Yes	No	No	No
3911	LAMA5	laminin, alpha 5	6.27E-05	No	No	No	No	No	No	No
7462	LAT2	linker for activation of T cells family, member 2	6.30E-05	No	No	Yes	No	No	No	No
60684	C4orf41	chromosome 4 open reading frame 41	6.32E-05	Yes	No	Yes	No	No	No	No
7264	TSTA3	tissue specific transplantation antigen P35B	6.35E-05	No	No	No	No	No	No	No
10726	NUDC	nuclear distribution gene C homolog (A. nidulans)	6.36E-05	No	No	Yes	No	No	No	No
4620	MYH2	myosin, heavy chain 2, skeletal muscle, adult	6.38E-05	No	No	Yes	No	No	No	No
4891	SLC11A2	solute carrier family 11 (proton-coupled divalent metal ion transporters), member 2	6.38E-05	Yes	No	Yes	No	No	No	No
29072	SETD2	SET domain containing 2	6.40E-05	No	No	Yes	No	No	No	No
1137	CHRNA4	cholinergic receptor, nicotinic, alpha 4	6.42E-05	No	No	No	No	Yes	No	No
54555	DDX49	DEAD (Asp-Glu-Ala-Asp) box polypeptide 49	6.42E-05	No	No	No	Yes	No	No	No
81629	TSSK3	testis-specific serine kinase 3	6.43E-05	Yes	No	Yes	No	No	No	No
130399	ACVR1C	activin A receptor, type IC	6.43E-05	No	No	Yes	No	No	No	No
10067	SCAMP3	secretory carrier membrane protein 3	6.44E-05	No	No	Yes	No	No	No	No
84196	USP48	ubiquitin specific peptidase 48	6.44E-05	No	No	No	Yes	No	Yes	No
5775	PTPN4	protein tyrosine phosphatase, non-receptor type 4 (megakaryocyte)	6.46E-05	Yes	No	Yes	No	No	No	No
64318	NOC3L	nucleolar complex associated 3 homolog (S. cerevisiae)	6.48E-05	Yes	No	Yes	No	No	No	No
1111	CHEK1	CHK1 checkpoint homolog (S. pombe)	6.49E-05	No	No	No	Yes	No	No	No
139866	SPIN4	spindlin family, member 4	6.51E-05	No	No	Yes	No	No	No	No
8665	EIF3F	eukaryotic translation initiation factor 3, subunit F	6.52E-05	No	No	No	Yes	No	No	No
157570	ESCO2	establishment of cohesion 1 homolog 2 (S. cerevisiae)	6.55E-05	No	No	Yes	No	No	No	No
22900	CARD8	caspase recruitment domain family, member 8	6.55E-05	No	No	Yes	No	No	No	No
84866	TMEM25	transmembrane protein 25	6.56E-05	Yes	No	No	Yes	No	No	No
54878	DPP8	dipeptidyl-peptidase 8	6.57E-05	No	No	Yes	No	No	No	No
1389	CREBL2	cAMP responsive element binding protein-like 2	6.57E-05	Yes	No	Yes	No	No	No	No
6677	SPAM1	sperm adhesion molecule 1 (PH-20 hyaluronidase, zona pellucida binding)	6.57E-05	No	No	Yes	No	No	No	No
670	BPHL	biphenyl hydrolase-like (serine hydrolase; breast epithelial mucin-associated antigen)	6.58E-05	No	No	Yes	No	No	No	No
4502	MT2A	metallothionein 2A	6.58E-05	Yes	No	No	Yes	No	No	No
57720	GPR107	G protein-coupled receptor 107	6.58E-05	No	No	Yes	No	No	No	No
7516	XRCC2	X-ray repair complementing defective repair in Chinese hamster cells 2	6.60E-05	No	No	No	Yes	No	No	No
9570	GOSR2	golgi SNAP receptor complex member 2	6.60E-05	Yes	No	Yes	No	No	No	No
84458	LCOR	ligand dependent nuclear receptor corepressor	6.62E-05	No	No	No	No	No	No	No
8567	MADD	MAP-kinase activating death domain	6.63E-05	No	No	No	No	No	No	No

827	CAPN6	calpain 6	6.64E-05	No	No	Yes	No	No	No	No
9830	TRIM14	tripartite motif-containing 14	6.64E-05	No	No	No	Yes	No	No	No
2295	FOXF2	forkhead box F2	6.67E-05	No	No	No	No	Yes	No	No
11018	TMED1	transmembrane emp24 protein transport domain containing 1	6.67E-05	No	No	No	No	Yes	No	No
8412	BCAR3	breast cancer anti-estrogen resistance 3	6.68E-05	No	No	No	Yes	No	No	No
9446	GSTO1	glutathione S-transferase omega 1	6.69E-05	No	No	Yes	No	No	No	No
79728	PALB2	partner and localizer of BRCA2	6.71E-05	No	No	Yes	No	No	Yes	No
83959	SLC4A11	solute carrier family 4, sodium borate transporter, member 11	6.73E-05	No	No	No	No	Yes	No	No
6880	TAF9	TAF9 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 32kDa	6.73E-05	No	No	Yes	No	No	No	No
84516	DCTN5	dynactin 5 (p25)	6.75E-05	No	No	No	No	No	Yes	No
64089	SNX16	sorting nexin 16	6.78E-05	No	No	No	Yes	No	No	No
64112	MOAP1	modulator of apoptosis 1	6.78E-05	No	No	Yes	No	No	No	No
129607	CMPK2	cytidine monophosphate (UMP-CMP) kinase 2, mitochondrial	6.78E-05	No	No	No	Yes	No	No	No
79048	SECISBP2	SECIS binding protein 2	6.79E-05	No	No	Yes	No	No	No	No
64083	GOLPH3	golgi phosphoprotein 3 (coat-protein)	6.79E-05	No	No	Yes	No	No	Yes	No
53405	CLIC5	chloride intracellular channel 5	6.79E-05	No	No	No	No	No	No	No
57602	USP36	ubiquitin specific peptidase 36	6.79E-05	No	No	Yes	No	No	No	No
284307	ZIK1	zinc finger protein interacting with K protein 1 homolog (mouse)	6.82E-05	No	No	No	Yes	No	No	No
10948	STARD3	STAR-related lipid transfer (START) domain containing 3	6.84E-05	Yes	No	No	Yes	No	No	No
6317	SERPINB3	serpin peptidase inhibitor, clade B (ovalbumin), member 3	6.84E-05	No	No	No	No	No	No	No
5520	PPP2R2A	protein phosphatase 2 (formerly 2A), regulatory subunit B, alpha isoform	6.84E-05	No	No	Yes	No	No	Yes	No
93621	MRFAP1	Mof4 family associated protein 1	6.85E-05	No	No	No	Yes	No	No	No
58500	ZNF250	zinc finger protein 250	6.86E-05	No	No	No	Yes	No	No	No
23041	MON2	MON2 homolog (S. cerevisiae)	6.88E-05	No	No	No	Yes	No	No	No
4781	NFIB	nuclear factor I/B	6.89E-05	Yes	No	No	No	No	No	No
79876	UBA5	ubiquitin-like modifier activating enzyme 5	6.89E-05	No	No	Yes	No	No	No	No
29945	ANAPC4	anaphase promoting complex subunit 4	6.89E-05	No	No	Yes	No	No	No	No
404217	CTXN1	cortexin 1	6.89E-05	No	No	No	No	No	No	No
391191	OR2AK2	olfactory receptor, family 2, subfamily AK, member 2	6.91E-05	NA	No	No	No	No	No	No
1760	DMPK	dystrophia myotonica-protein kinase	6.94E-05	No	Yes	No	No	No	No	No
79752	ZFAND1	zinc finger, AN1-type domain 1	6.94E-05	No	No	No	Yes	No	No	No
92421	CHMP4C	chromatin modifying protein 4C	6.94E-05	No	No	No	Yes	No	No	No
79567	FAM65A	family with sequence similarity 65, member A	6.95E-05	Yes	No	No	Yes	No	No	No
92960	PEX11G	peroxisomal biogenesis factor 11 gamma	6.95E-05	No	No	No	No	No	No	No

26820	SNORD24	small nucleolar RNA, C/D box 24	6.95E-05	NA	No	No	No	No	No	No	No
219957	OR9Q2	olfactory receptor, family 9, subfamily Q, member 2	6.97E-05	NA	No	No	No	Yes	No	No	No
47	ACLY	ATP citrate lyase	6.97E-05	No	No	No	Yes	No	No	No	No
55326	AGPAT5	1-acylglycerol-3-phosphate O-acyltransferase 5 (lysophosphatidic acid acyltransferase, epsilon)	6.99E-05	No	No	Yes	No	No	Yes	No	No
83732	RIOK1	RIO kinase 1 (yeast)	7.00E-05	No	No	Yes	No	No	No	No	No
3718	JAK3	Janus kinase 3 (a protein tyrosine kinase, leukocyte)	7.01E-05	Yes	No	No	Yes	No	No	No	No
169966	FAM46D	family with sequence similarity 46, member D	7.02E-05	No	No	No	Yes	No	No	No	No
259295	TAS2R49	taste receptor, type 2, member 49	7.04E-05	NA	No	Yes	No	No	No	No	No
79720	VPS37B	vacuolar protein sorting 37 homolog B (S. cerevisiae)	7.04E-05	Yes	No	Yes	No	No	No	No	No
90780	PYGO2	pygopus homolog 2 (Drosophila)	7.06E-05	No	No	No	Yes	No	No	No	No
84897	TBRG1	transforming growth factor beta regulator 1	7.06E-05	Yes	No	Yes	No	No	No	No	No
55356	SLC22A15	solute carrier family 22, member 15	7.08E-05	No	No	No	Yes	No	No	No	No
51118	UTP11L	UTP11-like, U3 small nucleolar ribonucleoprotein, (yeast)	7.11E-05	No	No	No	Yes	No	No	No	No
28968	SLC6A16	solute carrier family 6, member 16	7.13E-05	No	No	No	No	No	No	No	No
5080	PAX6	paired box 6	7.14E-05	No	No	Yes	No	No	No	No	No
9874	TLK1	tousled-like kinase 1	7.16E-05	Yes	Yes	Yes	No	No	No	No	No
9637	FEZ2	fasciculation and elongation protein zeta 2 (zyglin II)	7.20E-05	No	No	Yes	No	No	No	No	No
28957	MRPS28	mitochondrial ribosomal protein S28	7.20E-05	Yes	No	Yes	No	No	No	No	No
27252	KLHL20	kelch-like 20 (Drosophila)	7.20E-05	Yes	No	No	Yes	No	No	No	No
23092	ARHGAP26	Rho GTPase activating protein 26	7.21E-05	No	No	No	Yes	No	No	No	No
7124	TNF	tumor necrosis factor (TNF superfamily, member 2)	7.21E-05	No	No	No	Yes	No	Yes	Yes	Yes
401262	CRIP3	cysteine-rich protein 3	7.21E-05	No	No	Yes	No	No	No	No	No
3087	HHEX	hematopoietically expressed homeobox	7.21E-05	Yes	No	No	Yes	No	No	No	No
25793	FBXO7	F-box protein 7	7.23E-05	Yes	No	Yes	No	No	No	No	No
152485	ZNF827	zinc finger protein 827	7.26E-05	No	Yes	Yes	No	No	No	No	No
57690	TNRC6C	trinucleotide repeat containing 6C	7.28E-05	Yes	No	Yes	No	No	No	No	No
167227	DCP2	DCP2 decapping enzyme homolog (S. cerevisiae)	7.28E-05	No	No	Yes	No	No	No	No	No
341032	C11orf53	chromosome 11 open reading frame 53	7.30E-05	Yes	No	No	Yes	No	No	No	No
80342	TRAF3IP3	TRAF3 interacting protein 3	7.31E-05	Yes	Yes	No	Yes	No	No	No	No
387837	CLEC12B	C-type lectin domain family 12, member B	7.34E-05	No	No	Yes	No	No	No	No	No
26091	HERC4	hect domain and RLD 4	7.35E-05	No	No	Yes	No	No	No	No	No
5791	PTPRE	protein tyrosine phosphatase, receptor type, E	7.35E-05	Yes	No	No	Yes	No	No	No	No
5876	RABGGTB	Rab geranylgeranyltransferase, beta subunit	7.36E-05	Yes	No	Yes	No	No	Yes	No	No
221078	NSUN6	NOL1/NOP2/Sun domain family, member 6	7.37E-05	No	No	Yes	No	No	No	No	No

221079	ARL5B	ADP-ribosylation factor-like 5B	7.37E-05	No	No	Yes	No	No	No	No
6227	RPS21	ribosomal protein S21	7.37E-05	No	No	No	No	No	No	No
19	ABCA1	ATP-binding cassette, sub-family A (ABC1), member 1	7.37E-05	No	Yes	Yes	No	No	No	No
57505	AARS2	alanyl-tRNA synthetase 2, mitochondrial (putative)	7.37E-05	Yes	No	No	Yes	No	No	No
83852	SETDB2	SET domain, bifurcated 2	7.38E-05	No	No	No	No	Yes	No	No
115352	FCRL3	Fc receptor-like 3	7.39E-05	No	No	No	Yes	No	No	No
11275	KLHL2	kelch-like 2, Mayven (Drosophila)	7.41E-05	No	No	No	Yes	No	Yes	No
9265	PSCD3	pleckstrin homology, Sec7 and coiled-coil domains 3	7.44E-05	No	No	Yes	No	No	No	No
3071	NCKAP1L	NCK-associated protein 1-like	7.44E-05	Yes	No	Yes	No	No	No	No
79745	CLIP4	CAP-GLY domain containing linker protein family, member 4	7.45E-05	No	No	Yes	No	No	No	No
11245	GPR176	G protein-coupled receptor 176	7.45E-05	No	No	No	Yes	No	No	No
282890	ZNF311	zinc finger protein 311	7.45E-05	No	No	Yes	No	No	No	No
4928	NUP98	nucleoporin 98kDa	7.45E-05	No	No	No	Yes	No	No	No
57168	ASPHD2	aspartate beta-hydroxylase domain containing 2	7.49E-05	No	No	No	Yes	No	No	No
26284	ERAL1	Era G-protein-like 1 (E. coli)	7.50E-05	No	No	No	Yes	No	Yes	No
9688	NUP93	nucleoporin 93kDa	7.50E-05	No	No	Yes	No	No	No	No
63943	FKBPL	FK506 binding protein like	7.50E-05	No	No	Yes	No	No	No	No
79556	ERP1	endoplasmic reticulum metalloproteinase 1	7.50E-05	No	Yes	Yes	No	No	No	No
90378	SAMD1	sterile alpha motif domain containing 1	7.51E-05	No	No	No	Yes	No	No	No
23527	CENTB2	centaurin, beta 2	7.51E-05	No	No	No	Yes	No	No	No
22992	FBXL11	F-box and leucine-rich repeat protein 11	7.53E-05	No	No	Yes	No	No	No	No
5613	PRKX	protein kinase, X-linked	7.54E-05	Yes	No	No	Yes	No	No	No
26060	APPL1	adaptor protein, phosphotyrosine interaction, PH domain and leucine zipper containing 1	7.56E-05	Yes	No	Yes	No	No	No	No
56945	MRPS22	mitochondrial ribosomal protein S22	7.57E-05	Yes	No	No	No	No	No	No
163051	ZNF709	zinc finger protein 709	7.58E-05	NA	No	No	Yes	No	No	No
58526	MID1P1	MID1 interacting protein 1 (gastrulation specific G12 homolog (zebrafish))	7.59E-05	No	No	Yes	No	No	No	No
2799	GNS	glucosamine (N-acetyl)-6-sulfatase (Sanfilippo disease IIID)	7.60E-05	Yes	No	No	No	Yes	No	No
4191	MDH2	malate dehydrogenase 2, NAD (mitochondrial)	7.61E-05	No	No	Yes	No	No	No	No
170692	ADAMTS18	ADAM metalloproteinase with thrombospondin type 1 motif, 18	7.62E-05	No	No	Yes	No	No	No	No
5719	PSMD13	proteasome (prosome, macropain) 26S subunit, non-ATPase, 13	7.63E-05	No	No	Yes	No	No	No	No
51807	TUBA8	tubulin, alpha 8	7.63E-05	No	No	No	No	Yes	No	No
8650	NUMB	numb homolog (Drosophila)	7.64E-05	No	No	Yes	No	No	No	No
3913	LAMB2	laminin, beta 2 (laminin S)	7.65E-05	No	No	No	Yes	No	No	No
151449	GDF7	growth differentiation factor 7	7.66E-05	NA	No	No	Yes	No	No	No

5787	PTPRB	protein tyrosine phosphatase, receptor type, B	7.66E-05	No	No	Yes	No	No	No	No
1964	EIF1AX	eukaryotic translation initiation factor 1A, X-linked	7.69E-05	No	No	No	Yes	No	No	No
494143	CHAC2	ChaC, cation transport regulator homolog 2 (E. coli)	7.69E-05	No	No	Yes	No	No	No	No
23157	SEPT6	septin 6	7.69E-05	Yes	No	No	No	No	No	No
6133	RPL9	ribosomal protein L9	7.69E-05	No	No	No	Yes	No	Yes	No
2845	GPR22	G protein-coupled receptor 22	7.70E-05	No	No	No	No	Yes	No	No
200539	ANKRD23	ankyrin repeat domain 23	7.70E-05	Yes	Yes	No	No	No	No	No
4929	NR4A2	nuclear receptor subfamily 4, group A, member 2	7.74E-05	Yes	No	No	No	No	Yes	No
55699	IARS2	isoleucyl-tRNA synthetase 2, mitochondrial	7.74E-05	No	No	Yes	No	No	No	No
10380	BPNT1	3'(2'), 5'-biphosphate nucleotidase 1	7.74E-05	No	No	Yes	No	No	No	No
79970	ZNF767	zinc finger family member 767	7.74E-05	No	No	No	Yes	No	No	No
692233	SNORD117	small nucleolar RNA, C/D box 117	7.75E-05	NA	No	No	Yes	No	No	No
55840	EAF2	ELL associated factor 2	7.77E-05	No	Yes	Yes	No	No	Yes	No
94120	SYTL3	synaptotagmin-like 3	7.77E-05	Yes	No	No	Yes	No	No	No
55769	ZNF83	zinc finger protein 83	7.77E-05	Yes	No	Yes	No	No	Yes	No
10262	SF3B4	splicing factor 3b, subunit 4, 49kDa	7.77E-05	No	No	Yes	No	No	No	No
677768	SCARNA13	small Cajal body-specific RNA 13	7.79E-05	NA	No	No	Yes	No	No	No
5793	PTPRG	protein tyrosine phosphatase, receptor type, G	7.79E-05	Yes	No	Yes	No	No	No	No
26013	L3MBTL	l(3)mbt-like (Drosophila)	7.81E-05	No	No	Yes	No	No	No	No
10157	AASS	aminoadipate-semialdehyde synthase	7.81E-05	Yes	Yes	Yes	No	No	No	No
57458	TMCC3	transmembrane and coiled-coil domain family 3	7.81E-05	Yes	Yes	Yes	No	No	No	No
83452	RAB33B	RAB33B, member RAS oncogene family	7.82E-05	No	No	No	Yes	No	Yes	No
152330	CNTN4	contactin 4	7.82E-05	Yes	No	No	Yes	No	No	No
23291	FBXW11	F-box and WD repeat domain containing 11	7.84E-05	No	No	Yes	No	No	Yes	Yes
6173	RPL36A	ribosomal protein L36a	7.84E-05	No	No	Yes	No	No	No	No
6748	SSR4	signal sequence receptor, delta (translocon-associated protein delta)	7.84E-05	No	Yes	No	Yes	No	No	No
6129	RPL7	ribosomal protein L7	7.85E-05	No	No	Yes	No	No	No	No
652968	LOC652968	hypothetical protein LOC652968	7.86E-05	Yes	No	No	Yes	No	No	No
79882	ZC3H14	zinc finger CCCH-type containing 14	7.87E-05	No	No	No	No	Yes	No	No
7182	NR2C2	nuclear receptor subfamily 2, group C, member 2	7.88E-05	Yes	No	Yes	No	No	No	No
10063	COX17	COX17 cytochrome c oxidase assembly homolog (S. cerevisiae)	7.88E-05	No	No	Yes	No	No	Yes	No
79177	ZNF576	zinc finger protein 576	7.88E-05	No	No	Yes	No	No	No	No
126298	IRGQ	immunity-related GTPase family, Q	7.88E-05	No	No	Yes	No	No	No	No
56165	TDRD1	tudor domain containing 1	7.92E-05	No	No	No	No	No	No	No

60485	SAV1	salvador homolog 1 (Drosophila)	7.92E-05	Yes	No	Yes	No	No	No	No
4331	MNAT1	menage a trois homolog 1, cyclin H assembly factor (Xenopus laevis)	7.92E-05	No	No	No	Yes	No	No	No
8192	CLPP	ClpP caseinolytic peptidase, ATP-dependent, proteolytic subunit homolog (E. coli)	7.95E-05	No	No	Yes	No	No	No	No
2519	FUCA2	fucosidase, alpha-L-2, plasma	7.96E-05	No	No	Yes	No	No	No	No
11276	AP1GBP1	AP1 gamma subunit binding protein 1	7.97E-05	No	No	Yes	No	No	No	No
9968	MED12	mediator complex subunit 12	7.98E-05	Yes	No	No	Yes	No	No	No
3561	IL2RG	interleukin 2 receptor, gamma (severe combined immunodeficiency)	7.98E-05	Yes	No	No	Yes	No	No	No
25932	CLIC4	chloride intracellular channel 4	8.00E-05	No	No	No	Yes	No	No	No
55544	RBM38	RNA binding motif protein 38	8.02E-05	No	No	Yes	No	No	No	No
284004	HEXDC	hexosaminidase (glycosyl hydrolase family 20, catalytic domain) containing	8.03E-05	Yes	No	Yes	No	No	No	No
27121	DKK4	dickkopf homolog 4 (Xenopus laevis)	8.04E-05	No	No	Yes	No	No	No	No
4660	PPP1R12B	protein phosphatase 1, regulatory (inhibitor) subunit 12B	8.05E-05	Yes	No	Yes	No	No	No	No
26996	GPR160	G protein-coupled receptor 160	8.05E-05	No	No	Yes	No	No	No	No
653121	ZBTB8	zinc finger and BTB domain containing 8	8.07E-05	No	No	Yes	No	No	No	No
213	ALB	albumin	8.07E-05	No	No	No	No	No	No	No
353142	LCE3A	late cornified envelope 3A	8.12E-05	NA	No	No	Yes	No	No	No
26249	KLHL3	kelch-like 3 (Drosophila)	8.12E-05	No	No	Yes	No	No	No	No
67774	SCARNA1	small Cajal body-specific RNA 1	8.12E-05	NA	No	Yes	No	No	No	No
118426	LOH12CR1	loss of heterozygosity, 12, chromosomal region 1	8.12E-05	No	No	No	Yes	No	Yes	No
55695	NSUN5	NOL1/NOP2/Sun domain family, member 5	8.12E-05	No	No	Yes	No	No	No	No
2986	GUCY2F	guanylate cyclase 2F, retinal	8.12E-05	No	No	Yes	No	No	No	No
56256	SERTAD4	SERTA domain containing 4	8.12E-05	No	No	No	No	Yes	No	No
8647	ABCB11	ATP-binding cassette, sub-family B (MDR/TAP), member 11	8.15E-05	No	No	Yes	No	No	No	No
9038	TAAR5	trace amine associated receptor 5	8.15E-05	No	No	Yes	No	No	No	No
79006	METRN	metorin, glial cell differentiation regulator	8.18E-05	Yes	No	No	Yes	No	No	No
90933	TRIM41	tripartite motif-containing 41	8.19E-05	No	No	No	No	Yes	No	No
3735	KARS	lysyl-tRNA synthetase	8.19E-05	No	No	Yes	No	No	No	No
55762	ZNF701	zinc finger protein 701	8.21E-05	No	No	Yes	No	No	No	No
9917	FAM20B	family with sequence similarity 20, member B	8.24E-05	No	No	Yes	No	No	No	No
4137	MAPT	microtubule-associated protein tau	8.28E-05	No	No	No	No	No	No	No
285267	ZNF619	zinc finger protein 619	8.28E-05	No	No	Yes	No	No	No	No
22889	KIAA0907	KIAA0907	8.30E-05	No	No	No	Yes	No	No	No
339403	RXFP4	relaxin/insulin-like family peptide receptor 4	8.30E-05	NA	No	No	Yes	No	No	No
25976	TIPARP	TCDD-inducible poly(ADP-ribose) polymerase	8.31E-05	No	No	Yes	No	No	No	No

4524	MTHFR	5,10-methylenetetrahydrofolate reductase (NADPH)	8.31E-05	Yes	No	No	Yes	No	No	No
90952	ESAM	endothelial cell adhesion molecule	8.32E-05	Yes	No	No	Yes	No	No	No
66008	TRAK2	trafficking protein, kinesin binding 2	8.34E-05	Yes	No	No	Yes	No	No	No
7174	TPP2	tripeptidyl peptidase II	8.36E-05	No	No	Yes	No	No	Yes	No
159963	SLC5A12	solute carrier family 5 (sodium/glucose cotransporter), member 12	8.36E-05	No	No	Yes	No	No	No	No
150244	ZDHC8P	zinc finger, DHHC-type containing 8 pseudogene	8.38E-05	No	No	No	Yes	No	No	No
56980	PRDM10	PR domain containing 10	8.38E-05	No	No	Yes	No	No	No	No
6687	SPG7	spastic paraplegia 7 (pure and complicated autosomal recessive)	8.38E-05	Yes	No	No	Yes	No	No	No
92	ACVR2A	activin A receptor, type IIA	8.39E-05	No	No	Yes	No	No	No	No
6468	FBXW4	F-box and WD repeat domain containing 4	8.40E-05	No	No	No	No	Yes	Yes	No
162972	ZNF550	zinc finger protein 550	8.42E-05	Yes	No	Yes	No	No	No	No
64078	SLC28A3	solute carrier family 28 (sodium-coupled nucleoside transporter), member 3	8.44E-05	No	No	Yes	No	No	No	No
5329	PLAUR	plasminogen activator, urokinase receptor	8.45E-05	Yes	No	No	Yes	No	No	No
1939	LGTN	ligatin	8.45E-05	No	No	Yes	No	No	No	No
79800	ALS2CR8	amyotrophic lateral sclerosis 2 (juvenile) chromosome region, candidate 8	8.48E-05	No	No	Yes	No	No	No	No
606	BCL7A	B-cell CLL/lymphoma 7A	8.48E-05	No	Yes	No	Yes	No	No	No
128312	HIST3H2BB	histone cluster 3, H2bb	8.51E-05	NA	No	No	Yes	No	No	No
10392	NOD1	nucleotide-binding oligomerization domain containing 1	8.51E-05	Yes	No	Yes	No	No	No	No
8634	RTCD1	RNA terminal phosphate cyclase domain 1	8.51E-05	No	No	Yes	No	No	Yes	No
79789	CLMN	calmin (calponin-like, transmembrane)	8.53E-05	Yes	Yes	Yes	No	No	No	No
51056	LAP3	leucine aminopeptidase 3	8.53E-05	No	No	No	No	No	No	No
51296	SLC15A3	solute carrier family 15, member 3	8.53E-05	Yes	No	Yes	No	No	Yes	No
6690	SPRR1B	small proline-rich protein 1B (cornalin)	8.55E-05	Yes	No	No	Yes	No	No	No
8876	VNN1	vanin 1	8.60E-05	No	No	No	Yes	No	No	No
90075	ZNF30	zinc finger protein 30	8.61E-05	No	No	No	Yes	No	No	No
2647	BLOC1S1	biogenesis of lysosome-related organelles complex-1, subunit 1	8.62E-05	No	No	No	Yes	No	Yes	No
676	BRDT	bromodomain, testis-specific	8.65E-05	No	No	Yes	No	No	No	No
9177	HTR3B	5-hydroxytryptamine (serotonin) receptor 3B	8.69E-05	No	No	Yes	No	No	No	No
3207	HOXA11	homeobox A11	8.69E-05	No	No	Yes	No	No	No	No
25901	CCDC28A	coiled-coil domain containing 28A	8.70E-05	No	No	Yes	No	No	No	No
10102	TSM	Ts translation elongation factor, mitochondrial	8.70E-05	No	No	No	Yes	No	No	No
9358	ITGBL1	integrin, beta-like 1 (with EGF-like repeat domains)	8.70E-05	Yes	No	Yes	No	No	No	No
112942	CCDC104	coiled-coil domain containing 104	8.70E-05	Yes	No	No	No	Yes	Yes	No
677812	SNORA29	small nucleolar RNA, H/ACA box 29	8.70E-05	NA	No	No	No	Yes	No	No

348793	WDR53	WD repeat domain 53	8.71E-05	No	No	Yes	No	No	No	No
9181	ARHGEF2	rho/rac guanine nucleotide exchange factor (GEF) 2	8.72E-05	No	No	Yes	No	No	No	No
3960	LGALS4	lectin, galactoside-binding, soluble, 4 (galectin 4)	8.72E-05	No	No	No	Yes	No	No	No
83786	FRMD8	FERM domain containing 8	8.77E-05	No	No	No	No	No	No	No
283111	OR51V1	olfactory receptor, family 51, subfamily V, member 1	8.82E-05	NA	No	Yes	No	No	No	No
23499	MACF1	microtubule-actin crosslinking factor 1	8.82E-05	Yes	No	Yes	No	No	No	No
3563	IL3RA	interleukin 3 receptor, alpha (low affinity)	8.84E-05	No	No	No	Yes	No	No	No
5202	PFDN2	prefoldin subunit 2	8.85E-05	No	No	Yes	No	No	Yes	No
84678	FBXL10	F-box and leucine-rich repeat protein 10	8.85E-05	No	No	Yes	No	No	No	No
64208	POPC3	poppe domain containing 3	8.91E-05	No	No	Yes	No	No	No	No
79607	FAM118B	family with sequence similarity 118, member B	8.91E-05	Yes	No	Yes	No	No	No	No
9554	SEC22B	SEC22 vesicle trafficking protein homolog B (S. cerevisiae)	8.91E-05	No	Yes	Yes	No	No	No	No
53345	TM6SF2	transmembrane 6 superfamily member 2	8.92E-05	No	No	No	No	Yes	No	No
2550	GABBR1	gamma-aminobutyric acid (GABA) B receptor, 1	8.92E-05	Yes	No	No	Yes	No	No	No
4629	MYH11	myosin, heavy chain 11, smooth muscle	8.92E-05	Yes	No	Yes	No	No	No	No
57696	DDX55	DEAD (Asp-Glu-Ala-Asp) box polypeptide 55	8.93E-05	No	No	No	Yes	No	No	No
50485	SMARCAL1	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a-like 1	8.94E-05	Yes	No	No	Yes	No	No	No
3306	HSPA2	heat shock 70kDa protein 2	8.96E-05	No	No	No	No	No	No	No
4893	NRAS	neuroblastoma RAS viral (v-ras) oncogene homolog	8.97E-05	No	Yes	No	Yes	No	No	No
8325	FZD8	frizzled homolog 8 (Drosophila)	8.99E-05	Yes	No	No	No	Yes	No	No
89932	PAPLN	papilin, proteoglycan-like sulfated glycoprotein	9.01E-05	No	No	No	Yes	No	No	No
54556	ING3	inhibitor of growth family, member 3	9.01E-05	No	No	Yes	No	No	No	No
119682	OR51L1	olfactory receptor, family 51, subfamily L, member 1	9.03E-05	NA	No	Yes	No	No	No	No
54757	FAM20A	family with sequence similarity 20, member A	9.03E-05	Yes	No	No	No	No	No	No
84269	CHCHD5	coiled-coil-helix-coiled-coil-helix domain containing 5	9.03E-05	No	No	No	Yes	No	No	No
961	CD47	CD47 molecule	9.04E-05	Yes	No	No	Yes	No	No	No
10617	STAMBP	STAM binding protein	9.05E-05	No	No	Yes	No	No	No	No
11341	SCRG1	scrapie responsive protein 1	9.05E-05	No	No	No	No	Yes	No	No
22936	ELL2	elongation factor, RNA polymerase II, 2	9.07E-05	Yes	No	No	Yes	No	No	No
10044	SH2D3C	SH2 domain containing 3C	9.07E-05	Yes	No	No	No	No	No	No
1025	CDK9	cyclin-dependent kinase 9	9.07E-05	Yes	No	No	No	No	No	No
9219	MTA2	metastasis associated 1 family, member 2	9.09E-05	No	No	No	Yes	No	Yes	No
57191	VN1R1	vomer nasal 1 receptor 1	9.10E-05	No	No	No	Yes	No	No	No
121457	IKIP	IKK interacting protein	9.11E-05	Yes	No	Yes	No	No	No	No

84182	FLJ22374	hypothetical protein FLJ22374	9.12E-05	No	No	No	Yes	No	No	No
695	BTK	Bruton agammaglobulinemia tyrosine kinase	9.15E-05	No	No	Yes	No	No	No	No
60495	HPSE2	heparanase 2	9.17E-05	No	No	Yes	No	No	No	No
4170	MCL1	myeloid cell leukemia sequence 1 (BCL2-related)	9.19E-05	No	No	No	No	Yes	No	No
4318	MMP9	matrix metalloproteinase 9 (gelatinase B, 92kDa gelatinase, 92kDa type IV collagenase)	9.23E-05	No	No	No	Yes	No	No	No
27314	RAB30	RAB30, member RAS oncogene family	9.23E-05	No	No	No	Yes	No	Yes	No
9567	GTPBP1	GTP binding protein 1	9.24E-05	Yes	No	No	Yes	No	No	No
488	ATP2A2	ATPase, Ca++ transporting, cardiac muscle, slow twitch 2	9.24E-05	No	No	No	Yes	No	No	No
254013	MGC50559	hypothetical protein MGC50559	9.24E-05	Yes	No	Yes	No	No	No	No
134526	ACOT12	acyl-CoA thioesterase 12	9.25E-05	No	No	No	Yes	No	No	No
5905	RANGAP1	Ran GTPase activating protein 1	9.26E-05	No	No	Yes	No	No	No	No
5726	TAS2R38	taste receptor, type 2, member 38	9.26E-05	No	No	No	Yes	No	No	No
7003	TEAD1	TEA domain family member 1 (SV40 transcriptional enhancer factor)	9.26E-05	No	No	Yes	No	No	No	No
84247	LDCC1L	leucine zipper, down-regulated in cancer 1-like	9.29E-05	Yes	No	No	Yes	No	No	No
54165	DCUN1D1	DCN1, defective in cullin neddylation 1, domain containing 1 (S. cerevisiae)	9.31E-05	No	No	No	No	Yes	No	No
4478	MSN	moesin	9.38E-05	Yes	No	Yes	No	No	No	No
121355	GTSF1	gametocyte specific factor 1	9.40E-05	No	No	Yes	No	No	No	No
5555	PRH2	proline-rich protein HaellII subfamily 2	9.40E-05	NA	No	Yes	No	No	No	No
4116	MAGOH	mago-nashi homolog, proliferation-associated (Drosophila)	9.40E-05	No	No	No	Yes	No	No	No
29904	EEF2K	eukaryotic elongation factor-2 kinase	9.42E-05	Yes	No	No	Yes	No	No	No
440087	LOC440087	Uncharacterized protein LOC440087	9.42E-05	No	No	Yes	No	No	No	No
60488	MRPS35	mitochondrial ribosomal protein S35	9.45E-05	No	No	No	Yes	No	No	No
5364	PLXNB1	plexin B1	9.49E-05	No	No	No	No	No	No	No
84916	CIRH1A	cirrhosis, autosomal recessive 1A (cirhin)	9.51E-05	No	No	Yes	No	No	Yes	No
8869	ST3GAL5	ST3 beta-galactoside alpha-2,3-sialyltransferase 5	9.53E-05	Yes	No	No	Yes	No	No	No
7478	WNT8A	wingless-type MMTV integration site family, member 8A	9.53E-05	No	No	Yes	No	No	No	No
54760	PCSK4	proprotein convertase subtilisin/kexin type 4	9.54E-05	No	No	No	Yes	No	No	No
4327	MMP19	matrix metalloproteinase 19	9.56E-05	Yes	No	Yes	No	No	No	No
5064	PALM	paralemmin	9.57E-05	No	No	No	No	No	No	No
1962	EHHADH	enoyl-Coenzyme A, hydratase/3-hydroxyacyl Coenzyme A dehydrogenase	9.59E-05	No	No	Yes	No	No	No	No
6341	SCO1	SCO cytochrome oxidase deficient homolog 1 (yeast)	9.60E-05	No	No	No	No	No	Yes	No
150350	ENTHD1	ENTH domain containing 1	9.61E-05	No	No	Yes	No	No	No	No
9402	GRAP2	GRB2-related adaptor protein 2	9.61E-05	No	No	Yes	No	No	No	No
5191	PEX7	peroxisomal biogenesis factor 7	9.64E-05	No	Yes	Yes	No	No	No	No

51208	CLDN18	claudin 18	9.67E-05	Yes	No	Yes	No	No	No	No
116028	C16orf75	chromosome 16 open reading frame 75	9.70E-05	No	No	No	No	Yes	No	No
392636	TMEM195	transmembrane protein 195	9.71E-05	NA	No	Yes	No	No	No	No
140775	SMCR8	Smith-Magenis syndrome chromosome region, candidate 8	9.71E-05	No	No	Yes	No	No	No	No
5328	PLAU	plasminogen activator, urokinase	9.72E-05	No	No	No	No	No	No	No
10219	KLRG1	killer cell lectin-like receptor subfamily G, member 1	9.72E-05	No	No	No	Yes	No	No	No
3604	TNFRSF9	tumor necrosis factor receptor superfamily, member 9	9.73E-05	No	No	Yes	No	No	No	No
90701	SEC11C	SEC11 homolog C (S. cerevisiae)	9.74E-05	No	No	No	No	Yes	No	No
338596	ST8SIA6	ST8 alpha-N-acetyl-neuramide alpha-2,8-sialyltransferase 6	9.76E-05	NA	No	Yes	No	No	Yes	No
80329	ULBP1	UL16 binding protein 1	9.76E-05	No	No	No	No	No	No	No
9278	ZBTB22	zinc finger and BTB domain containing 22	9.76E-05	No	No	Yes	No	No	No	No
130029	ALS2CR16	amyotrophic lateral sclerosis 2 (juvenile) chromosome region, candidate 16	9.80E-05	No	Yes	Yes	No	No	No	No
7270	TTF1	transcription termination factor, RNA polymerase I	9.81E-05	No	No	Yes	No	No	No	No
27	ABL2	v-abl Abelson murine leukemia viral oncogene homolog 2 (arg, Abelson-related gene)	9.81E-05	Yes	No	No	Yes	No	No	No
201283	FLJ32065	hypothetical protein FLJ32065	9.82E-05	No	Yes	Yes	No	No	No	No
51557	GLULD1	glutamate-ammonia ligase (glutamine synthetase) domain containing 1	9.86E-05	No	No	No	Yes	No	No	No
175	AGA	aspartylglucosaminidase	9.87E-05	No	No	Yes	No	No	Yes	No
50813	COP9A7	COP9 constitutive photomorphogenic homolog subunit 7A (Arabidopsis)	9.87E-05	No	No	Yes	No	No	No	No
3837	KPNB1	karyopherin (importin) beta 1	9.87E-05	No	No	Yes	No	No	No	No
5494	PPM1A	protein phosphatase 1A (formerly 2C), magnesium-dependent, alpha isoform	9.90E-05	No	No	Yes	No	No	No	No
9497	SLC4A7	solute carrier family 4, sodium bicarbonate cotransporter, member 7	9.91E-05	Yes	No	Yes	No	No	No	No
65005	MRPL9	mitochondrial ribosomal protein L9	9.91E-05	No	No	No	Yes	No	No	No
51686	OAZ3	ornithine decarboxylase antizyme 3	9.91E-05	No	No	No	Yes	No	No	No
219469	OR8H1	olfactory receptor, family 8, subfamily H, member 1	9.94E-05	NA	No	Yes	No	No	No	No
390061	OR51Q1	olfactory receptor, family 51, subfamily Q, member 1	9.96E-05	NA	No	Yes	No	No	No	No
6919	TCEA2	transcription elongation factor A (SII), 2	9.97E-05	No	No	No	Yes	No	No	No
347252	IGFBPL1	insulin-like growth factor binding protein-like 1	9.99E-05	NA	No	No	Yes	No	No	No
23170	TTL12	tubulin tyrosine ligase-like family, member 12	0.000100284	No	Yes	No	No	No	No	No
8705	B3GALT4	UDP-Gal:betaGlcNAc beta 1,3-galactosyltransferase, polypeptide 4	0.000100297	Yes	No	No	No	No	No	No
10181	P2RY5	purinergic receptor P2Y, G-protein coupled, 5	0.000100529	Yes	No	No	No	No	No	No
9039	UBA3	ubiquitin-like modifier activating enzyme 3	0.000100695	Yes	No	No	No	No	No	No
10230	NBR2	neighbor of BRCA1 gene 2	0.000100791	Yes	No	No	No	No	No	No
115500	ZNF501	zinc finger protein 501	0.000100923	Yes	No	No	No	No	Yes	No
11173	ADAMTS7	ADAM metalloproteinase with thrombospondin type 1 motif, 7	0.000101834	Yes	No	No	No	No	No	No

23195	MDN1	MDN1, midasin homolog (yeast)	0.000102159	Yes	No	No	No	No	No	No	No
1153	CIRBP	cold inducible RNA binding protein	0.000103149	Yes	No	No	No	No	Yes	No	No
8324	FZD7	frizzled homolog 7 (Drosophila)	0.000103193	No	Yes	No	No	No	No	No	No
54977	SLC25A38	solute carrier family 25, member 38	0.000103473	No	Yes	No	No	No	No	No	No
11132	CAPN10	calpain 10	0.000104342	Yes	No	No	No	No	Yes	No	No
23341	DNAJC16	DnaJ (Hsp40) homolog, subfamily C, member 16	0.000106063	Yes	No	No	No	No	No	No	No
79874	RABEP2	rabaptin, RAB GTPase binding effector protein 2	0.000106344	Yes	No	No	No	No	No	No	No
3299	HSF4	heat shock transcription factor 4	0.000106533	Yes	No	No	No	No	No	No	No
9403	SEPT15	15 kDa selenoprotein	0.000107353	No	No	No	No	No	Yes	No	No
1636	ACE	angiotensin I converting enzyme (peptidyl-dipeptidase A) 1	0.000107554	Yes	No	No	No	No	No	No	No
10061	ABCF2	ATP-binding cassette, sub-family F (GCN20), member 2	0.000108283	Yes	No	No	No	No	No	No	No
148811	PM20D1	peptidase M20 domain containing 1	0.000108665	No	No	No	No	No	Yes	No	No
23256	SCFD1	sec1 family domain containing 1	0.000110001	Yes	No	No	No	No	No	No	No
91012	LASS5	LAG1 homolog, ceramide synthase 5	0.000110228	Yes	No	No	No	No	No	No	No
55653	BCAS4	breast carcinoma amplified sequence 4	0.000110755	No	No	No	No	No	Yes	No	No
11272	PRR4	proline rich 4 (lacrimal)	0.000111765	No	No	No	No	No	Yes	No	No
25865	PRKD2	protein kinase D2	0.000112929	Yes	No	No	No	No	No	No	No
9894	TELO2	TEL2, telomere maintenance 2, homolog (S. cerevisiae)	0.000113043	No	No	No	No	No	Yes	No	No
8407	TAGLN2	transgelin 2	0.000113333	No	Yes	No	No	No	No	No	No
55288	RHOT1	ras homolog gene family, member T1	0.000113726	Yes	No	No	No	No	No	No	No
79608	RIC3	resistance to inhibitors of cholinesterase 3 homolog (C. elegans)	0.000114345	Yes	No	No	No	No	No	No	No
114799	ESCO1	establishment of cohesion 1 homolog 1 (S. cerevisiae)	0.000114641	Yes	No	No	No	No	No	No	No
9205	ZMYM5	zinc finger, MYM-type 5	0.000114864	No	No	No	No	No	Yes	No	No
57161	PELI2	pellino homolog 2 (Drosophila)	0.000114883	Yes	No	No	No	No	No	No	No
51027	BOLA1	bolA homolog 1 (E. coli)	0.000116303	Yes	No	No	No	No	No	No	No
10985	GCN1L1	GCN1 general control of amino-acid synthesis 1-like 1 (yeast)	0.000116344	No	No	No	No	No	Yes	No	No
3557	IL1RN	interleukin 1 receptor antagonist	0.000116937	Yes	No	No	No	No	No	No	No
26040	SETBP1	SET binding protein 1	0.000116943	Yes	No	No	No	No	Yes	Yes	No
30812	SOX8	SRY (sex determining region Y)-box 8	0.000117682	Yes	No	No	No	No	No	No	No
64788	LMF1	lipase maturation factor 1	0.000117682	Yes	No	No	No	No	No	No	No
29907	SNX15	sorting nexin 15	0.000117857	No	No	No	No	No	Yes	No	No
11237	RNF24	ring finger protein 24	0.000117936	Yes	No	No	No	No	No	No	No
9913	SUPT7L	suppressor of Ty 7 (S. cerevisiae)-like	0.000118271	No	No	No	No	No	Yes	No	No
51666	ASB4	ankyrin repeat and SOCS box-containing 4	0.000118729	Yes	No	No	No	No	No	No	No

10235	RASGRP2	RAS guanyl releasing protein 2 (calcium and DAG-regulated)	0.000118758	Yes	No	No	No	No	Yes	Yes
7057	THBS1	thrombospondin 1	0.000119489	Yes	No	No	No	No	No	No
285195	SLC9A9	solute carrier family 9 (sodium/hydrogen exchanger), member 9	0.000119802	Yes	No	No	No	No	No	No
4175	MCM6	minichromosome maintenance complex component 6	0.000119829	No	Yes	No	No	No	No	No
201161	PRR6	proline rich 6	0.000119834	Yes	No	No	No	No	No	No
83440	ADPGK	ADP-dependent glucokinase	0.000119849	Yes	No	No	No	No	No	No
9220	TIAF1	TGFB1-induced anti-apoptotic factor 1	0.000120118	Yes	No	No	No	No	No	No
761	CA3	carbonic anhydrase III, muscle specific	0.000120431	Yes	No	No	No	No	No	No
2992	GYG1	glycogenin 1	0.000120447	Yes	Yes	No	No	No	No	No
9546	APBA3	amyloid beta (A4) precursor protein-binding, family A, member 3 (X11-like 2)	0.000120723	Yes	No	No	No	No	No	No
375444	C5orf34	chromosome 5 open reading frame 34	0.000121698	No	No	No	No	No	Yes	No
4302	MLLT6	myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); translocated to, 6	0.000122353	Yes	No	No	No	No	No	No
51318	MRPL35	mitochondrial ribosomal protein L35	0.000122709	No	Yes	No	No	No	No	No
83480	PUS3	pseudouridylylase synthase 3	0.000123957	Yes	Yes	No	No	No	No	No
64764	CREB3L2	cAMP responsive element binding protein 3-like 2	0.000124375	Yes	No	No	No	No	No	No
9470	EIF4E2	eukaryotic translation initiation factor 4E family member 2	0.000124422	No	Yes	No	No	No	Yes	No
113829	SLC35A4	solute carrier family 35, member A4	0.000125335	No	No	No	No	No	Yes	No
152100	CMC1	COX assembly mitochondrial protein homolog (S. cerevisiae)	0.000125353	Yes	No	No	No	No	No	No
8976	WASL	Wiskott-Aldrich syndrome-like	0.000127112	No	Yes	No	No	No	No	No
5616	PRKY	protein kinase, Y-linked	0.000127239	Yes	No	No	No	No	No	No
123606	NIPA1	non imprinted in Prader-Willi/Angelman syndrome 1	0.000128334	Yes	No	No	No	No	No	No
6899	TBX1	T-box 1	0.000128677	Yes	No	No	No	No	No	No
389170	LEKR1	leucine, glutamate and lysine rich 1	0.000128695	NA	No	No	No	No	Yes	No
55819	RNF130	ring finger protein 130	0.000129146	Yes	No	No	No	No	No	No
399687	MYO18A	myosin XVIII A	0.000130491	Yes	No	No	No	No	No	No
23258	RAB6IP1	RAB6 interacting protein 1	0.000131183	Yes	No	No	No	No	No	No
27115	PDE7B	phosphodiesterase 7B	0.000131527	Yes	No	No	No	No	No	No
55124	PIWIL2	piwi-like 2 (Drosophila)	0.00013174	Yes	No	No	No	No	No	No
90268	FAM105B	family with sequence similarity 105, member B	0.000131975	No	Yes	No	No	No	No	No
6352	CCL5	chemokine (C-C motif) ligand 5	0.000132262	Yes	No	No	No	No	No	No
150684	COMMD1	copper metabolism (Murr1) domain containing 1	0.000133415	Yes	No	No	No	No	No	No
7390	UROS	uroporphyrinogen III synthase (congenital erythropoietic porphyria)	0.000133459	No	No	No	No	No	Yes	No
199746	U2AF1L4	U2 small nuclear RNA auxiliary factor 1-like 4	0.000133935	Yes	No	No	No	No	No	No
1209	CLPTM1	cleft lip and palate associated transmembrane protein 1	0.000134089	No	No	No	No	No	Yes	No

351	APP	amyloid beta (A4) precursor protein (peptidase nexin-II, Alzheimer disease)	0.000134357	Yes	No	No	No	No	No	No	No
3631	INPP4A	inositol polyphosphate-4-phosphatase, type I, 107kDa	0.000134382	Yes	No	No	No	No	No	No	No
53342	IL17D	interleukin 17D	0.000134631	Yes	No	No	No	No	No	No	No
6594	SMARCA1	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 1	0.000134974	Yes	No	No	No	No	No	No	No
1508	CTSB	cathepsin B	0.000134979	Yes	No	No	No	No	No	No	No
1396	CRIP1	cysteine-rich protein 1 (intestinal)	0.000135388	Yes	No	No	No	No	No	No	No
6542	SLC7A2	solute carrier family 7 (cationic amino acid transporter, y+ system), member 2	0.00013644	Yes	No	No	No	No	No	No	No
8744	TNFSF9	tumor necrosis factor (ligand) superfamily, member 9	0.000137532	No	No	No	No	No	Yes	No	No
6442	SGCA	sarcoglycan, alpha (50kDa dystrophin-associated glycoprotein)	0.000138072	Yes	No	No	No	No	No	No	No
6229	RPS24	ribosomal protein S24	0.000138163	Yes	No	No	No	No	No	No	No
26053	AUTS2	autism susceptibility candidate 2	0.000138258	Yes	No	No	No	No	No	No	No
79026	AHNAK	AHNAK nucleoprotein	0.000138506	Yes	No	No	No	No	No	No	No
6515	SLC2A3	solute carrier family 2 (facilitated glucose transporter), member 3	0.000138645	Yes	No	No	No	No	No	No	No
51678	MPP6	membrane protein, palmitoylated 6 (MAGUK p55 subfamily member 6)	0.000138824	No	No	No	No	No	Yes	No	No
132	ADK	adenosine kinase	0.000140458	Yes	No	No	No	No	No	No	No
374786	EFCAB5	EF-hand calcium binding domain 5	0.000141525	Yes	No	No	No	No	No	No	No
2852	GP1R	G protein-coupled estrogen receptor 1	0.00014283	No	No	No	No	No	Yes	No	No
9918	NCAPD2	non-SMC condensin I complex, subunit D2	0.000143087	No	No	No	No	No	Yes	No	No
115825	WDFY2	WD repeat and FYVE domain containing 2	0.000144245	Yes	No	No	No	No	Yes	No	No
92014	MCART1	mitochondrial carrier triple repeat 1	0.000144251	NA	No	No	No	No	Yes	No	No
140885	SIRPA	signal-regulatory protein alpha	0.000144425	Yes	No	No	No	No	No	No	No
27348	TOR1B	torsin family 1, member B (torsin B)	0.000145877	Yes	No	No	No	No	No	No	No
84953	MICALCL	MICAL C-terminal like	0.000146516	Yes	No	No	No	No	No	No	No
114804	RNF157	ring finger protein 157	0.000148714	Yes	No	No	No	No	No	No	No
25897	RNF19A	ring finger protein 19A	0.000148824	Yes	No	No	No	No	No	No	No
9774	BCLAF1	BCL2-associated transcription factor 1	0.000148987	Yes	No	No	No	No	No	No	No
51322	WAC	WW domain containing adaptor with coiled-coil	0.000149214	Yes	No	No	No	No	No	No	No
56913	C1GALT1	core 1 synthase, glycoprotein-N-acetylgalactosamine 3-beta-galactosyltransferase, 1	0.000151064	Yes	No	No	No	No	No	No	No
7474	WNT5A	wingless-type MMTV integration site family, member 5A	0.00015109	No	No	No	No	No	Yes	No	No
7204	TRIO	triple functional domain (PTPRF interacting)	0.000151197	Yes	No	No	No	No	No	No	No
342908	ZNF404	zinc finger protein 404	0.00015126	Yes	No	No	No	No	No	No	No
79772	MCTP1	multiple C2 domains, transmembrane 1	0.000151872	Yes	No	No	No	No	No	No	No
4065	LY75	lymphocyte antigen 75	0.000152123	Yes	No	No	No	No	No	No	No
8076	MFAP5	microfibrillar associated protein 5	0.000153091	Yes	No	No	No	No	No	No	No

59274	MESDC1	mesoderm development candidate 1	0.000153316	No	No	No	No	No	Yes	No
91404	SESTD1	SEC14 and spectrin domains 1	0.000153805	Yes	No	No	No	No	Yes	No
2197	FAU	Finkel-Biskis-Reilly murine sarcoma virus (FBR-MuSV) ubiquitously expressed	0.000156228	No	No	No	No	No	Yes	No
94134	ARHGAP12	Rho GTPase activating protein 12	0.000156241	Yes	No	No	No	No	No	No
57704	GBA2	glucosidase, beta (bile acid) 2	0.000157876	Yes	No	No	No	No	No	No
81832	NETO1	neuropilin (NRP) and tolloid (TLL)-like 1	0.000158455	Yes	No	No	No	No	No	No
9046	DOK2	docking protein 2, 56kDa	0.000158632	Yes	No	No	No	No	No	No
4308	TRPM1	transient receptor potential cation channel, subfamily M, member 1	0.00015888	Yes	No	No	No	No	No	No
54941	RNF125	ring finger protein 125	0.000159237	Yes	No	No	No	No	No	No
3480	IGF1R	insulin-like growth factor 1 receptor	0.000159241	Yes	No	No	No	No	No	No
51095	TRNT1	tRNA nucleotidyl transferase, CCA-adding, 1	0.000159647	Yes	No	No	No	No	No	No
30009	TBX21	T-box 21	0.000159745	Yes	No	No	No	No	No	No
9440	MED17	mediator complex subunit 17	0.000159788	No	No	No	No	No	Yes	No
23484	LEPROTL1	leptin receptor overlapping transcript-like 1	0.000160308	Yes	No	No	No	No	No	No
26133	TRPC4AP	transient receptor potential cation channel, subfamily C, member 4 associated protein	0.000161138	No	Yes	No	No	No	No	No
64780	MICAL1	microtubule associated monooxygenase, calponin and LIM domain containing 1	0.000162674	Yes	No	No	No	No	Yes	No
6487	ST3GAL3	ST3 beta-galactoside alpha-2,3-sialyltransferase 3	0.000163409	Yes	No	No	No	No	No	No
4860	NP	nucleoside phosphorylase	0.000163729	Yes	No	No	No	No	No	No
5782	PTPN12	protein tyrosine phosphatase, non-receptor type 12	0.000163833	Yes	Yes	No	No	No	No	No
140739	UBE2F	ubiquitin-conjugating enzyme E2F (putative)	0.000163845	Yes	No	No	No	No	No	No
144402	CPNE8	copine VIII	0.000163941	Yes	No	No	No	No	No	No
4642	MYO1D	myosin ID	0.000164739	No	Yes	No	No	No	No	No
26118	WSB1	WD repeat and SOCS box-containing 1	0.000164994	Yes	No	No	No	No	No	No
84433	CARD11	caspase recruitment domain family, member 11	0.000165685	No	Yes	No	No	No	No	No
81628	TSC22D4	TSC22 domain family, member 4	0.000165692	Yes	No	No	No	No	No	No
400673	VMAC	vimentin-type IF-associated coiled-coil protein	0.000166214	NA	No	No	No	No	Yes	No
8439	NSMAF	neutral sphingomyelinase (N-SMase) activation associated factor	0.000168085	Yes	No	No	No	No	No	No
223	ALDH9A1	aldehyde dehydrogenase 9 family, member A1	0.000169644	Yes	Yes	No	No	No	No	No
1278	COL1A2	collagen, type I, alpha 2	0.000172192	Yes	No	No	No	No	No	No
958	CD40	CD40 molecule, TNF receptor superfamily member 5	0.000172341	No	Yes	No	No	No	No	No
832	CAPZB	capping protein (actin filament) muscle Z-line, beta	0.000172384	Yes	No	No	No	No	No	No
2119	ETV5	ets variant gene 5 (ets-related molecule)	0.000172522	No	No	No	No	No	Yes	No
9770	RASSF2	Ras association (RalGDS/AF-6) domain family member 2	0.000173904	Yes	No	No	No	No	No	No
253738	EBF3	early B-cell factor 3	0.000173999	Yes	No	No	No	No	No	No

85378	TUBGCP6	tubulin, gamma complex associated protein 6	0.000175861	Yes	No	No	No	No	No	No	No
4836	NMT1	N-myristoyltransferase 1	0.000178026	Yes	No	No	No	No	No	No	No
4747	NEFL	neurofilament, light polypeptide 68kDa	0.000178803	No	Yes	No	No	No	No	No	No
5307	PITX1	paired-like homeodomain 1	0.000179374	Yes	No	No	No	No	No	No	No
22856	CHSY1	chondroitin sulfate synthase 1	0.000179769	Yes	No	No	No	No	No	No	No
84803	AGPAT9	1-acylglycerol-3-phosphate O-acyltransferase 9	0.000180718	Yes	No	No	No	No	No	No	No
83479	DDX59	DEAD (Asp-Glu-Ala-Asp) box polypeptide 59	0.000180816	Yes	No	No	No	No	Yes	No	No
64802	NMNAT1	nicotinamide nucleotide adenylyltransferase 1	0.000181874	No	No	No	No	No	Yes	No	No
84328	LZIC	leucine zipper and CTNBP1 domain containing	0.000181874	No	No	No	No	No	Yes	No	No
9933	KIAA0020	KIAA0020	0.000182206	Yes	No	No	No	No	No	No	No
55340	GIMAP5	GTPase, IMAP family member 5	0.000182233	Yes	No	No	No	No	No	No	No
57396	CLK4	CDC-like kinase 4	0.000182686	Yes	No	No	No	No	No	No	No
8463	TEAD2	TEA domain family member 2	0.000183428	Yes	No	No	No	No	No	No	No
1644	DDC	dopa decarboxylase (aromatic L-amino acid decarboxylase)	0.000183831	Yes	No	No	No	No	No	No	No
9525	VPS4B	vacuolar protein sorting 4 homolog B (S. cerevisiae)	0.000184404	No	No	No	No	No	Yes	No	No
54511	HMGCLL1	3-hydroxymethyl-3-methylglutaryl-Coenzyme A lyase-like 1	0.000187975	Yes	No	No	No	No	No	No	No
326624	RAB37	RAB37, member RAS oncogene family	0.000188189	Yes	No	No	No	No	No	No	No
10197	PSME3	proteasome (prosome, macropain) activator subunit 3 (PA28 gamma; K)	0.000188432	No	No	No	No	No	Yes	No	No
266553	OFCC1	orofacial cleft 1 candidate 1	0.000188789	Yes	No	No	No	No	No	No	No
5529	PPP2R5E	protein phosphatase 2, regulatory subunit B, epsilon isoform	0.000190107	Yes	Yes	No	No	No	No	No	No
8503	PIK3R3	phosphoinositide-3-kinase, regulatory subunit 3 (gamma)	0.000190682	No	No	No	No	No	Yes	No	No
166815	TIGD2	tigger transposable element derived 2	0.000192543	No	No	No	No	No	Yes	No	No
11009	IL24	interleukin 24	0.000192564	Yes	No	No	No	No	Yes	Yes	Yes
151556	GPR155	G protein-coupled receptor 155	0.000192761	Yes	No	No	No	No	No	No	No
56105	PCDHGA11	protocadherin gamma subfamily A, 11	0.000192799	No	Yes	No	No	No	No	No	No
79982	DNAJB14	DnaJ (Hsp40) homolog, subfamily B, member 14	0.000193304	Yes	No	No	No	No	No	No	No
51177	PLEKHO1	pleckstrin homology domain containing, family O member 1	0.000194097	Yes	No	No	No	No	No	No	No
10938	EHD1	EH-domain containing 1	0.000194478	No	No	No	No	No	Yes	No	No
2263	FGFR2	fibroblast growth factor receptor 2 (bacteria-expressed kinase, keratinocyte growth factor receptor, craniofacial dysostosis 1, Crouzon syndrome, Pfeiffer syndrome, Jackson-Weiss syndrome)	0.000195072	Yes	No	No	No	No	No	No	No
54790	TET2	tet oncogene family member 2	0.000195136	Yes	Yes	No	No	No	No	No	No
6792	CDKL5	cyclin-dependent kinase-like 5	0.000196312	Yes	No	No	No	No	No	No	No
8828	NRP2	neuropilin 2	0.000196999	Yes	No	No	No	No	No	No	No
200728	TMEM17	transmembrane protein 17	0.000197184	Yes	No	No	No	No	No	No	No
1453	CSNK1D	casein kinase 1, delta	0.000197701	Yes	No	No	No	No	No	No	No

51122	COMMD2	COMM domain containing 2	0.000198603	No	Yes	No	No	No	No	No	No
84650	EBPL	emopamil binding protein-like	0.000198618	Yes	No	No	No	No	No	No	No
6595	SMARCA2	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 2	0.000199166	Yes	No	No	No	No	No	No	No
57560	IFT80	intraflagellar transport 80 homolog (Chlamydomonas)	0.00020004	No	Yes	No	No	No	No	No	No
126792	B3GALT6	UDP-Gal:betaGal beta 1,3-galactosyltransferase polypeptide 6	0.000200966	Yes	No	No	No	No	No	No	No
83551	TAAR8	trace amine associated receptor 8	0.000201459	No	Yes	No	No	No	No	No	No
201292	TRIM65	tripartite motif-containing 65	0.000201746	Yes	No	No	No	No	No	No	No
54869	EPS8L1	EPS8-like 1	0.000201747	Yes	No	No	No	No	No	No	No
64840	PORCN	porcupine homolog (Drosophila)	0.000202088	Yes	Yes	No	No	No	Yes	No	No
84939	MUM1	melanoma associated antigen (mutated) 1	0.000206966	Yes	No	No	No	No	No	No	No
9642	DCHS1	dachsous 1 (Drosophila)	0.000207528	Yes	No	No	No	No	No	No	No
10947	AP3M2	adaptor-related protein complex 3, mu 2 subunit	0.00020785	Yes	No	No	No	No	No	No	No
10077	TSPAN32	tetraspanin 32	0.000208474	Yes	No	No	No	No	No	No	No
55201	MAP1S	microtubule-associated protein 1S	0.000208715	No	Yes	No	No	No	No	No	No
6648	SOD2	superoxide dismutase 2, mitochondrial	0.000209641	Yes	No	No	No	No	No	No	No
57094	CPA6	carboxypeptidase A6	0.000210015	Yes	No	No	No	No	No	No	No
11142	PKIG	protein kinase (cAMP-dependent, catalytic) inhibitor gamma	0.000211256	Yes	No	No	No	No	No	No	No
55553	SOX6	SRY (sex determining region Y)-box 6	0.000211401	Yes	No	No	No	No	No	No	No
151888	BTLA	B and T lymphocyte associated	0.000212433	Yes	Yes	No	No	No	No	No	No
56144	PCDHA4	protocadherin alpha 4	0.000213492	Yes	No	No	No	No	No	No	No
10580	SORBS1	sorbin and SH3 domain containing 1	0.000213786	Yes	No	No	No	No	No	No	No
4744	NEFH	neurofilament, heavy polypeptide 200kDa	0.000215166	No	Yes	No	No	No	No	No	No
64418	TMEM168	transmembrane protein 168	0.000215424	Yes	No	No	No	No	Yes	No	No
103910	MRLC2	myosin regulatory light chain MRLC2	0.000215672	Yes	No	No	No	No	Yes	No	No
170394	PWWP2B	PWWP domain containing 2B	0.000216021	Yes	No	No	No	No	No	No	No
51195	RAPGEFL1	Rap guanine nucleotide exchange factor (GEF)-like 1	0.00021612	Yes	No	No	No	No	No	No	No
5973	REBP	renin binding protein	0.000217136	Yes	No	No	No	No	No	No	No
10618	TGOLN2	trans-golgi network protein 2	0.000218285	Yes	No	No	No	No	No	No	No
54900	LAX1	lymphocyte transmembrane adaptor 1	0.000218615	Yes	No	No	No	No	No	No	No
2591	GALNT3	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 3 (GalNAc-T3)	0.000218655	Yes	No	No	No	No	No	No	No
10884	MRPS30	mitochondrial ribosomal protein S30	0.000219323	Yes	No	No	No	No	No	No	No
2277	FIGF	c-fos induced growth factor (vascular endothelial growth factor D)	0.000220626	No	Yes	No	No	No	No	No	No
3875	KRT18	keratin 18	0.00022146	Yes	No	No	No	No	No	No	No
2531	KDSR	3-ketodihydroshingosine reductase	0.000221921	Yes	No	No	No	No	No	No	No

3241	HPCAL1	hippocalcin-like 1	0.000222174	Yes	No	No	No	No	No	Yes	Yes
23242	COBL	cordon-bleu homolog (mouse)	0.000222175	Yes	No	No	No	No	No	No	No
441108	LOC441108	hypothetical gene supported by AK128882	0.000222386	Yes	No	No	No	No	No	No	No
134957	STXBP5	syntaxin binding protein 5 (tomosyn)	0.000223424	Yes	No	No	No	No	No	Yes	No
9467	SH3BP5	SH3-domain binding protein 5 (BTK-associated)	0.000224464	Yes	No	No	No	No	No	No	No
210	ALAD	aminolevulinic acid, delta-, dehydratase	0.000224764	Yes	No	No	No	No	No	No	No
7008	TEF	thyrotrophic embryonic factor	0.000225243	Yes	No	No	No	No	No	No	No
84667	HES7	hairy and enhancer of split 7 (Drosophila)	0.000226376	No	No	No	No	No	No	Yes	No
9209	LRRFIP2	leucine rich repeat (in FLII) interacting protein 2	0.000227115	No	Yes	No	No	No	No	No	No
9823	ARMCX2	armadillo repeat containing, X-linked 2	0.000227436	Yes	No	No	No	No	No	No	No
23645	PPP1R15A	protein phosphatase 1, regulatory (inhibitor) subunit 15A	0.000228295	Yes	No	No	No	No	No	Yes	No
114781	BTBD9	BTB (POZ) domain containing 9	0.000229727	Yes	No	No	No	No	No	No	No
4146	MATN1	matrilin 1, cartilage matrix protein	0.000230226	Yes	No	No	No	No	No	No	No
79092	CARD14	caspase recruitment domain family, member 14	0.000231308	Yes	No	No	No	No	No	No	No
2670	GFAP	glial fibrillary acidic protein	0.000232348	Yes	No	No	No	No	No	No	No
90809	TMEM55B	transmembrane protein 55B	0.000232771	Yes	No	No	No	No	No	No	No
27295	PDLIM3	PDZ and LIM domain 3	0.000233704	Yes	No	No	No	No	No	No	No
116988	CENTG3	centaurin, gamma 3	0.000234101	Yes	No	No	No	No	No	No	No
375387	LRRC33	leucine rich repeat containing 33	0.000234826	Yes	Yes	No	No	No	No	Yes	No
3673	ITGA2	integrin, alpha 2 (CD49B, alpha 2 subunit of VLA-2 receptor)	0.00023518	Yes	No	No	No	No	No	No	No
9778	KIAA0232	KIAA0232	0.000236215	Yes	No	No	No	No	No	No	No
23199	KIAA0182	KIAA0182	0.000236354	Yes	No	No	No	No	No	No	No
9543	PUNC	putative neuronal cell adhesion molecule	0.000236722	No	Yes	No	No	No	No	No	No
6881	TAF10	TAF10 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 30kDa	0.000236848	No	No	No	No	No	No	Yes	Yes
1032	CDKN2D	cyclin-dependent kinase inhibitor 2D (p19, inhibits CDK4)	0.000237667	Yes	No	No	No	No	No	No	No
6452	SH3BP2	SH3-domain binding protein 2	0.000237938	Yes	No	No	No	No	No	No	No
5355	PLP2	proteolipid protein 2 (colonic epithelium-enriched)	0.000238797	Yes	Yes	No	No	No	No	No	No
11117	EMILIN1	elastin microfibril interfacer 1	0.00023943	Yes	No	No	No	No	No	No	No
51232	CRIM1	cysteine rich transmembrane BMP regulator 1 (chordin-like)	0.000239532	Yes	No	No	No	No	No	No	No
50628	GEMIN4	gem (nuclear organelle) associated protein 4	0.000239992	No	No	No	No	No	No	Yes	No
84660	CCDC62	coiled-coil domain containing 62	0.000240422	Yes	No	No	No	No	No	No	No
10342	TFG	TRK-fused gene	0.000242668	No	Yes	No	No	No	No	Yes	No
7104	TM4SF4	transmembrane 4 L six family member 4	0.000243103	Yes	No	No	No	No	No	No	No
57198	ATPB2	ATPase, class I, type 8B, member 2	0.000243517	Yes	No	No	No	No	No	No	No

5362	PLXNA2	plexin A2	0.000244891	Yes	No	No	No	No	Yes	No
112936	VPS26B	vacuolar protein sorting 26 homolog B (S. pombe)	0.000245381	Yes	No	No	No	No	No	No
79829	NAT11	N-acetyltransferase 11	0.000245533	Yes	No	No	No	No	No	No
3569	IL6	interleukin 6 (interferon, beta 2)	0.000247001	Yes	No	No	No	No	No	No
868	CBLB	Cas-Br-M (murine) ecotropic retroviral transforming sequence b	0.000248537	Yes	No	No	No	No	No	No
64215	DNAJC1	DnaJ (Hsp40) homolog, subfamily C, member 1	0.000249129	Yes	No	No	No	No	No	No
147912	SIX5	SIX homeobox 5	0.000249817	Yes	No	No	No	No	No	No
84532	ACSS1	acyl-CoA synthetase short-chain family member 1	0.000250919	Yes	No	No	No	No	No	No
770	CA11	carbonic anhydrase XI	0.000251545	Yes	No	No	No	No	No	No
1200	TPP1	tripeptidyl peptidase I	0.000253338	Yes	No	No	No	No	Yes	Yes
10512	SEMA3C	sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3C	0.000254636	Yes	No	No	No	No	No	No
6778	STAT6	signal transducer and activator of transcription 6, interleukin-4 induced	0.00025512	Yes	No	No	No	No	Yes	Yes
7705	ZNF146	zinc finger protein 146	0.000255315	No	No	No	No	No	Yes	Yes
79143	MBOAT7	membrane bound O-acyltransferase domain containing 7	0.000255544	Yes	No	No	No	No	No	No
80705	TSGA10	testis specific, 10	0.000255663	No	No	No	No	No	Yes	No
7779	SLC30A1	solute carrier family 30 (zinc transporter), member 1	0.000255709	Yes	Yes	No	No	No	No	No
2597	GAPDH	glyceraldehyde-3-phosphate dehydrogenase	0.000255816	No	No	No	No	No	Yes	No
257019	FRMD3	FERM domain containing 3	0.000257685	Yes	No	No	No	No	No	No
5373	PMM2	phosphomannomutase 2	0.000258333	Yes	No	No	No	No	No	No
84266	ALKBH7	alkB, alkylation repair homolog 7 (E. coli)	0.000258982	No	No	No	No	No	Yes	No
55509	BATF3	basic leucine zipper transcription factor, ATF-like 3	0.000259212	Yes	No	No	No	No	No	No
2309	FOXO3	forkhead box O3	0.000259553	Yes	No	No	No	No	No	No
9716	AQR	aquarius homolog (mouse)	0.000261094	Yes	No	No	No	No	No	No
51201	ZDHHC2	zinc finger, DHHC-type containing 2	0.000261304	Yes	No	No	No	No	No	No
57634	EP400	E1A binding protein p400	0.000262626	Yes	No	No	No	No	No	No
3749	KCNC4	potassium voltage-gated channel, Shaw-related subfamily, member 4	0.000262741	Yes	No	No	No	No	No	No
84620	ST6GAL2	ST6 beta-galactosamide alpha-2,6-sialyltransferase 2	0.000263391	No	Yes	No	No	No	No	No
3717	JAK2	Janus kinase 2 (a protein tyrosine kinase)	0.000263623	Yes	No	No	No	No	No	No
253635	CODC75	coiled-coil domain containing 75	0.000264274	Yes	Yes	No	No	No	No	No
2222	FDF1	farnesyl-diphosphate farnesyltransferase 1	0.00026429	Yes	No	No	No	No	No	No
10579	TACC2	transforming, acidic coiled-coil containing protein 2	0.000264676	Yes	No	No	No	No	No	No
1806	DPYD	dihydropyrimidine dehydrogenase	0.000265615	Yes	No	No	No	No	No	No
51706	CYB5R1	cytochrome b5 reductase 1	0.000267637	Yes	No	No	No	No	No	No
9379	NRXN2	neurexin 2	0.000268924	Yes	No	No	No	No	No	No

51119	SBDS	Shwachman-Bodian-Diamond syndrome	0.00029935	Yes	No	No	No	No	No	No	No
8321	FZD1	frizzled homolog 1 (Drosophila)	0.000299429	No	No	No	No	No	No	Yes	No
84304	NUDT22	nudix (nucleoside diphosphate linked moiety X)-type motif 22	0.000300306	No	No	No	No	No	No	Yes	No
11004	KIF2C	kinesin family member 2C	0.000300766	No	No	No	No	No	No	Yes	No
93273	LEMD1	LEM domain containing 1	0.000301184	Yes	No	No	No	No	No	No	No
6322	SCML1	sex comb on midleg-like 1 (Drosophila)	0.000302057	Yes	No	No	No	No	No	No	No
6643	SNX2	sorting nexin 2	0.000302572	Yes	No	No	No	No	No	No	No
7468	WHSC1	Wolf-Hirschhorn syndrome candidate 1	0.000303246	No	Yes	No	No	No	No	No	No
25849	DKFZP564O0823	DKFZP564O0823 protein	0.000303879	No	Yes	No	No	No	No	No	No
6134	RPL10	ribosomal protein L10	0.000303943	Yes	No	No	No	No	No	No	No
285521	COX18	COX18 cytochrome c oxidase assembly homolog (S. cerevisiae)	0.00030415	Yes	No	No	No	No	No	No	No
114885	OSBPL11	oxysterol binding protein-like 11	0.000304503	No	No	No	No	No	No	Yes	No
283870	C16orf79	chromosome 16 open reading frame 79	0.000304739	Yes	No	No	No	No	No	No	No
56135	PCDHAC1	protocadherin alpha subfamily C, 1	0.000305836	Yes	No	No	No	No	No	No	No
2683	B4GALT1	UDP-Gal:betaGlcNAc beta 1,4-galactosyltransferase, polypeptide 1	0.000307438	Yes	No	No	No	No	No	No	No
29105	C16orf80	chromosome 16 open reading frame 80	0.000307601	No	No	No	No	No	No	Yes	No
23558	WBP2	WW domain binding protein 2	0.000308729	Yes	No	No	No	No	No	No	No
338699	ANKRD42	ankyrin repeat domain 42	0.000309655	Yes	No	No	No	No	No	No	No
2853	GPR31	G protein-coupled receptor 31	0.000310097	Yes	No	No	No	No	No	No	No
994	CDC25B	cell division cycle 25 homolog B (S. pombe)	0.000310528	No	No	No	No	No	No	Yes	No
1942	EFNA1	ephrin-A1	0.000311661	Yes	No	No	No	No	No	No	No
11019	LIAS	lipic acid synthetase	0.000313666	No	No	No	No	No	No	Yes	No
65263	PYCR1	pyrroline-5-carboxylate reductase-like	0.000313734	Yes	No	No	No	No	No	No	No
142910	LIPJ	lipase, family member J	0.000313889	No	Yes	No	No	No	No	No	No
120071	GYLTL1B	glycosyltransferase-like 1B	0.000313914	Yes	No	No	No	No	No	No	No
6206	RPS12	ribosomal protein S12	0.000316614	No	No	No	No	No	No	Yes	No
55084	SOBP	sine oculis binding protein homolog (Drosophila)	0.000317828	Yes	No	No	No	No	No	No	No
10585	POMT1	protein-O-mannosyltransferase 1	0.000317948	Yes	No	No	No	No	No	No	No
55773	TBC1D23	TBC1 domain family, member 23	0.000320158	Yes	No	No	No	No	No	No	No
55230	USP40	ubiquitin specific peptidase 40	0.000320631	Yes	No	No	No	No	No	No	No
200765	TIGD1	tigger transposable element derived 1	0.000320642	No	No	No	No	No	No	Yes	No
7556	ZNF10	zinc finger protein 10	0.000321473	No	No	No	No	No	No	Yes	No
5547	PRCP	prolylcarboxypeptidase (angiotensinase C)	0.00032184	Yes	No	No	No	No	No	Yes	Yes
55670	PEX26	peroxisome biogenesis factor 26	0.000323431	No	Yes	No	No	No	No	No	No

57488	FAM62B	family with sequence similarity 62 (C2 domain containing) member B	0.000323717	No	No	No	No	No	No	Yes	No
5286	PIK3C2A	phosphoinositide-3-kinase, class 2, alpha polypeptide	0.000324626	Yes	No	No	No	No	No	No	No
595	CCND1	cyclin D1	0.000327612	Yes	No	No	No	No	No	Yes	Yes
2648	GCN5L2	GCN5 general control of amino-acid synthesis 5-like 2 (yeast)	0.000328716	Yes	No	No	No	No	No	No	No
6659	SOX4	SRY (sex determining region Y)-box 4	0.000330236	Yes	No	No	No	No	No	No	No
5291	PIK3CB	phosphoinositide-3-kinase, catalytic, beta polypeptide	0.000330473	Yes	No	No	No	No	No	No	No
79959	CEP76	centrosomal protein 76kDa	0.000331934	No	No	No	No	No	No	Yes	No
3659	IRF1	interferon regulatory factor 1	0.000333398	Yes	No	No	No	No	No	No	No
54429	TAS2R5	taste receptor, type 2, member 5	0.000333689	No	No	No	No	No	No	Yes	No
59348	ZNF350	zinc finger protein 350	0.000338718	Yes	No	No	No	No	No	Yes	No
54808	DYM	dymeclin	0.000338834	Yes	No	No	No	No	No	No	No
55746	NUP133	nucleoporin 133kDa	0.000342264	No	No	No	No	No	No	Yes	No
3753	KCNE1	potassium voltage-gated channel, Isk-related family, member 1	0.000344132	Yes	No	No	No	No	No	No	No
4204	MECP2	methyl CpG binding protein 2 (Rett syndrome)	0.000344621	Yes	Yes	No	No	No	No	No	No
27010	TPK1	thiamin pyrophosphokinase 1	0.000344873	Yes	No	No	No	No	No	No	No
85476	GFM1	G elongation factor, mitochondrial 1	0.000344987	Yes	No	No	No	No	No	No	No
57515	SERINC1	serine incorporator 1	0.000346378	Yes	No	No	No	No	No	Yes	Yes
5734	PTGER4	prostaglandin E receptor 4 (subtype EP4)	0.000347068	Yes	No	No	No	No	No	No	No
3766	KCNJ10	potassium inwardly-rectifying channel, subfamily J, member 10	0.000347742	Yes	No	No	No	No	No	No	No
3765	KCNJ9	potassium inwardly-rectifying channel, subfamily J, member 9	0.000347742	No	Yes	No	No	No	No	No	No
253827	MSRB3	methionine sulfoxide reductase B3	0.000348349	Yes	No	No	No	No	No	No	No
253980	KCTD13	potassium channel tetramerisation domain containing 13	0.000350246	Yes	No	No	No	No	No	No	No
3687	ITGAX	integrin, alpha X (complement component 3 receptor 4 subunit)	0.000352366	Yes	No	No	No	No	No	No	No
7189	TRAF6	TNF receptor-associated factor 6	0.000355894	Yes	No	No	No	No	No	No	No
5217	PFN2	profilin 2	0.000357699	No	No	No	No	No	No	Yes	No
83700	JAM3	junctional adhesion molecule 3	0.000357919	Yes	No	No	No	No	No	No	No
60685	ZFAND3	zinc finger, AN1-type domain 3	0.000358457	Yes	No	No	No	No	No	No	No
27283	TINAG	tubulointerstitial nephritis antigen	0.000358717	Yes	No	No	No	No	No	No	No
22859	LPHN1	latrophilin 1	0.000359117	No	No	No	No	No	No	Yes	No
2152	F3	coagulation factor III (thromboplastin, tissue factor)	0.000359793	Yes	No	No	No	No	No	No	No
2896	GRN	granulin	0.000361767	Yes	No	No	No	No	No	No	No
286097	EFHA2	EF-hand domain family, member A2	0.000362002	Yes	No	No	No	No	No	No	No
6166	RPL36AL	ribosomal protein L36a-like	0.000363053	No	No	No	No	No	No	Yes	No
7072	TIA1	TIA1 cytotoxic granule-associated RNA binding protein	0.000364729	Yes	No	No	No	No	No	No	No

23495	TNFRSF13B	tumor necrosis factor receptor superfamily, member 13B	0.000411944	Yes	Yes	No	No	No	No	No	No
9338	TCEAL1	transcription elongation factor A (SII)-like 1	0.000413604	Yes	No	No	No	No	No	No	No
7290	HIRA	HIR histone cell cycle regulation defective homolog A (S. cerevisiae)	0.000416242	Yes	No	No	No	No	No	No	No
5550	PREP	prolyl endopeptidase	0.000424459	Yes	No	No	No	No	No	No	No
26051	PPP1R16B	protein phosphatase 1, regulatory (inhibitor) subunit 16B	0.000424608	Yes	No	No	No	No	Yes	Yes	Yes
55313	FLJ11151	hypothetical protein FLJ11151	0.000426287	Yes	No	No	No	No	No	No	No
51592	TRIM33	tripartite motif-containing 33	0.000427544	Yes	No	No	No	No	No	No	No
4330	MN1	meningioma (disrupted in balanced translocation) 1	0.000428309	Yes	No	No	No	No	No	No	No
7559	ZNF12	zinc finger protein 12	0.000430325	Yes	No	No	No	No	No	No	No
151258	SLC38A11	solute carrier family 38, member 11	0.000431558	Yes	No	No	No	No	No	No	No
64863	METTL4	methyltransferase like 4	0.000433166	No	No	No	No	No	Yes	No	No
23603	CORO1C	coronin, actin binding protein, 1C	0.000433651	Yes	Yes	No	No	No	No	No	No
1130	LYST	lysosomal trafficking regulator	0.000436793	Yes	No	No	No	No	No	No	No
8379	MAD1L1	MAD1 mitotic arrest deficient-like 1 (yeast)	0.000438437	Yes	No	No	No	No	No	No	No
2788	GNG7	guanine nucleotide binding protein (G protein), gamma 7	0.000441754	Yes	Yes	No	No	No	Yes	No	No
55298	RNF121	ring finger protein 121	0.000445058	No	No	No	No	No	Yes	No	No
6009	RHEB	Ras homolog enriched in brain	0.000446757	Yes	No	No	No	No	No	No	No
158234	RG9MTD3	RNA (guanine-9-) methyltransferase domain containing 3	0.000449305	Yes	No	No	No	No	No	No	No
80315	CPEB4	cytoplasmic polyadenylation element binding protein 4	0.000450403	Yes	No	No	No	No	Yes	No	No
3937	LCP2	lymphocyte cytosolic protein 2 (SH2 domain containing leukocyte protein of 76kDa)	0.000450558	Yes	No	No	No	No	No	No	No
404550	C16orf74	chromosome 16 open reading frame 74	0.000450981	Yes	No	No	No	No	No	No	No
11033	CENTA1	centaurin, alpha 1	0.000452679	Yes	No	No	No	No	No	No	No
55251	PCMTD2	protein-L-isospartate (D-aspartate) O-methyltransferase domain containing 2	0.000455348	No	Yes	No	No	No	No	No	No
9519	TBPL1	TBP-like 1	0.000458368	No	No	No	No	No	Yes	No	No
2571	GAD1	glutamate decarboxylase 1 (brain, 67kDa)	0.000458544	Yes	No	No	No	No	No	No	No
23396	PIP5K1C	phosphatidylinositol-4-phosphate 5-kinase, type I, gamma	0.000458558	Yes	No	No	No	No	No	No	No
4883	NPR3	natriuretic peptide receptor C/guanylate cyclase C (atrionatriuretic peptide receptor C)	0.000458575	Yes	No	No	No	No	No	No	No
9657	IQCB1	IQ motif containing B1	0.000464621	No	Yes	No	No	No	Yes	No	No
10981	RAB32	RAB32, member RAS oncogene family	0.000464635	No	Yes	No	No	No	No	No	No
347902	AMIGO2	adhesion molecule with Ig-like domain 2	0.000469715	Yes	No	No	No	No	No	No	No
387680	FAM21A	family with sequence similarity 21, member A	0.000471602	Yes	No	No	No	No	No	No	No
8546	AP3B1	adaptor-related protein complex 3, beta 1 subunit	0.000474821	Yes	No	No	No	No	Yes	No	No
123803	NTAN1	N-terminal asparagine amidase	0.000480104	No	Yes	No	No	No	No	No	No
3916	LAMP1	lysosomal-associated membrane protein 1	0.000481239	Yes	No	No	No	No	Yes	Yes	Yes

8690	JRKL	jerky homolog-like (mouse)	0.000481314	No	No	No	No	No	No	Yes	No
3670	ISL1	ISL LIM homeobox 1	0.000482632	No	Yes	No	No	No	No	No	No
7768	ZNF225	zinc finger protein 225	0.000482639	Yes	No	No	No	No	No	Yes	No
90407	TMEM41A	transmembrane protein 41A	0.000483979	Yes	No	No	No	No	No	No	No
10878	CFHR3	complement factor H-related 3	0.000484955	Yes	No	No	No	No	No	No	No
11279	KLF8	Kruppel-like factor 8	0.000487845	Yes	No	No	No	No	No	No	No
285598	ARL10	ADP-ribosylation factor-like 10	0.000487873	Yes	No	No	No	No	No	No	No
3632	INPP5A	inositol polyphosphate-5-phosphatase, 40kDa	0.000490397	Yes	No	No	No	No	No	No	No
4676	NAP1L4	nucleosome assembly protein 1-like 4	0.000494604	No	Yes	No	No	No	No	No	No
9971	NR1H4	nuclear receptor subfamily 1, group H, member 4	0.000500935	Yes	No	No	No	No	No	No	No
7136	TNNI2	troponin I type 2 (skeletal, fast)	0.000503029	Yes	No	No	No	No	No	No	No
55634	ZNF673	zinc finger family member 673	0.000503715	Yes	No	No	No	No	No	No	No
2252	FGF7	fibroblast growth factor 7 (keratinocyte growth factor)	0.000505542	Yes	No	No	No	No	No	No	No
9898	UBAP2L	ubiquitin associated protein 2-like	0.000506021	Yes	No	No	No	No	No	No	No
64427	TTC31	tetratricopeptide repeat domain 31	0.000508589	Yes	No	No	No	No	No	No	No
11035	RIPK3	receptor-interacting serine-threonine kinase 3	0.00051084	Yes	No	No	No	No	No	No	No
57577	KIAA1407	KIAA1407	0.0005109	No	Yes	No	No	No	No	No	No
126231	ZNF573	zinc finger protein 573	0.000512494	Yes	Yes	No	No	No	No	No	No
284361	C19orf63	chromosome 19 open reading frame 63	0.000513719	No	No	No	No	No	No	Yes	No
4670	HNRNPM	heterogeneous nuclear ribonucleoprotein M	0.000517234	No	No	No	No	No	No	Yes	No
54536	EXOC6	exocyst complex component 6	0.000517869	Yes	No	No	No	No	No	No	No
55291	SAPS3	SAPS domain family, member 3	0.000521917	Yes	No	No	No	No	No	No	No
151651	EFHB	EF-hand domain family, member B	0.000523653	Yes	No	No	No	No	No	No	No
94274	PPP1R14A	protein phosphatase 1, regulatory (inhibitor) subunit 14A	0.000525548	Yes	No	No	No	No	No	No	No
23761	PISD	phosphatidylserine decarboxylase	0.000525782	No	No	No	No	No	No	Yes	No
6257	RXRB	retinoid X receptor, beta	0.000525926	Yes	No	No	No	No	No	No	No
79901	CYBRD1	cytochrome b reductase 1	0.000526687	Yes	No	No	No	No	No	No	No
11200	CHEK2	CHK2 checkpoint homolog (S. pombe)	0.000532611	No	No	No	No	No	No	Yes	No
51816	CECR1	cat eye syndrome chromosome region, candidate 1	0.000532631	Yes	No	No	No	No	No	No	No
79890	RIN3	Ras and Rab interactor 3	0.000533157	Yes	Yes	No	No	No	No	Yes	No
5001	ORC5L	origin recognition complex, subunit 5-like (yeast)	0.000534717	Yes	No	No	No	No	No	No	No
79875	THSD4	thrombospondin, type I, domain containing 4	0.000537369	Yes	No	No	No	No	No	No	No
10876	FAM12A	family with sequence similarity 12, member A	0.000538159	No	Yes	No	No	No	No	No	No
828	CAPS	calcyphosine	0.00053993	Yes	No	No	No	No	No	No	No

158399	ZNF483	zinc finger protein 483	0.000546177	Yes	No	No	No	No	No	No	No
8879	SGPL1	sphingosine-1-phosphate lyase 1	0.000547881	Yes	No	No	No	No	No	No	No
1457	CSNK2A1	casein kinase 2, alpha 1 polypeptide	0.000548051	No	No	No	No	No	Yes	No	No
1366	CLDN7	claudin 7	0.000548236	Yes	No	No	No	No	No	No	No
7225	TRPC6	transient receptor potential cation channel, subfamily C, member 6	0.000549543	Yes	No	No	No	No	No	No	No
9550	ATP6V1G1	ATPase, H+ transporting, lysosomal 13kDa, V1 subunit G1	0.000554633	No	Yes	No	No	No	No	No	No
23093	TTLL5	tubulin tyrosine ligase-like family, member 5	0.000563808	Yes	No	No	No	No	No	No	No
9293	GPR52	G protein-coupled receptor 52	0.000566795	Yes	No	No	No	No	No	No	No
2243	FGA	fibrinogen alpha chain	0.000566883	Yes	No	No	No	No	No	No	No
284370	ZNF615	zinc finger protein 615	0.000566921	Yes	No	No	No	No	No	No	No
51132	RNF12	ring finger protein 12	0.000571077	Yes	No	No	No	No	Yes	No	No
23586	DDX58	DEAD (Asp-Glu-Ala-Asp) box polypeptide 58	0.000571294	Yes	No	No	No	No	Yes	No	No
57761	TRIB3	tribbles homolog 3 (Drosophila)	0.000582033	Yes	Yes	No	No	No	No	No	No
7881	KCNAB1	potassium voltage-gated channel, shaker-related subfamily, beta member 1	0.000582459	Yes	Yes	No	No	No	No	No	No
79818	ZNF552	zinc finger protein 552	0.000585238	No	Yes	No	No	No	No	No	No
8790	FPGT	fructose-1-phosphate guanylyltransferase	0.000585486	Yes	No	No	No	No	Yes	Yes	Yes
64794	DDX31	DEAD (Asp-Glu-Ala-Asp) box polypeptide 31	0.000586108	Yes	No	No	No	No	No	No	No
55702	CCDC94	coiled-coil domain containing 94	0.00058849	No	No	No	No	No	Yes	No	No
51128	SAR1B	SAR1 gene homolog B (S. cerevisiae)	0.000594059	No	No	No	No	No	Yes	No	No
51433	ANAPC5	anaphase promoting complex subunit 5	0.000597293	Yes	No	No	No	No	No	No	No
56674	TMEM9B	TMEM9 domain family, member B	0.000597352	Yes	No	No	No	No	No	No	No
127391	TMCO2	transmembrane and coiled-coil domains 2	0.000598817	Yes	No	No	No	No	No	No	No
140685	ZBTB46	zinc finger and BTB domain containing 46	0.00060279	Yes	No	No	No	No	No	No	No
9798	KIAA0174	KIAA0174	0.000603484	No	No	No	No	No	Yes	No	No
160622	GRASP	GRP1 (general receptor for phosphoinositides 1)-associated scaffold protein	0.000606493	Yes	No	No	No	No	No	No	No
55644	OSGEP	O-sialoglycoprotein endopeptidase	0.000608338	Yes	No	No	No	No	Yes	Yes	Yes
1678	TIMM8A	translocase of inner mitochondrial membrane 8 homolog A (yeast)	0.000609606	No	No	No	No	No	Yes	No	No
64174	DPEP2	dipeptidase 2	0.000611167	Yes	No	No	No	No	No	No	No
316	AOX1	aldehyde oxidase 1	0.000612728	No	Yes	No	No	No	No	No	No
30613	VSX1	visual system homeobox 1	0.000616476	Yes	No	No	No	No	No	No	No
64762	FAM59A	family with sequence similarity 59, member A	0.000616916	Yes	No	No	No	No	No	No	No
6790	AURKA	aurora kinase A	0.000618595	No	No	No	No	No	Yes	No	No
3726	JUNB	jun B proto-oncogene	0.000620209	Yes	No	No	No	No	Yes	Yes	Yes
9779	TBC1D5	TBC1 domain family, member 5	0.000620472	Yes	No	No	No	No	No	No	No

80764	THAP7	THAP domain containing 7	0.000622395	Yes	No	No	No	No	No	Yes	No
85363	TRIM5	tripartite motif-containing 5	0.000623312	No	No	No	No	No	No	Yes	No
51571	FAM49B	family with sequence similarity 49, member B	0.000628683	Yes	No	No	No	No	No	No	No
388165	FLJ43276	similar to ubiquitin-conjugating enzyme E2Q 2	0.000629489	NA*	Yes	No	No	No	No	No	No
146	ADRA1D	adrenergic, alpha-1D-, receptor	0.000631397	Yes	No	No	No	No	No	No	No
8792	TNFRSF11A	tumor necrosis factor receptor superfamily, member 11a, NFKB activator	0.000636974	Yes	No	No	No	No	No	No	No
2760	GM2A	GM2 ganglioside activator	0.000640555	Yes	Yes	No	No	No	No	No	No
23352	UBR4	ubiquitin protein ligase E3 component n-recogin 4	0.000648861	Yes	No	No	No	No	No	No	No
10131	TRAP1	TNF receptor-associated protein 1	0.000650421	No	Yes	No	No	No	No	No	No
80726	KIAA1683	KIAA1683	0.000656593	Yes	No	No	No	No	No	No	No
2937	GSS	glutathione synthetase	0.000657634	Yes	Yes	No	No	No	No	No	No
56999	ADAMTS9	ADAM metalloproteinase with thrombospondin type 1 motif, 9	0.000661766	Yes	No	No	No	No	No	No	No
8600	TNFSF11	tumor necrosis factor (ligand) superfamily, member 11	0.000662602	Yes	No	No	No	No	No	No	No
375298	CERKL	ceramide kinase-like	0.000663616	Yes	No	No	No	No	No	No	No
93185	IGSF8	immunoglobulin superfamily, member 8	0.000664284	Yes	No	No	No	No	No	No	No
10299	MARCH6	membrane-associated ring finger (C3HC4) 6	0.000665955	Yes	No	No	No	No	No	No	No
9527	GOSR1	golgi SNAP receptor complex member 1	0.000667761	Yes	No	No	No	No	No	No	No
8796	SCEL	scellin	0.000669396	Yes	No	No	No	No	No	No	No
1102	RCBTB2	regulator of chromosome condensation (RCC1) and BTB (POZ) domain containing protein 2	0.000669905	No	Yes	No	No	No	No	No	No
27031	NPHP3	nephronophthisis 3 (adolescent)	0.000673728	Yes	No	No	No	No	No	No	No
29967	LRP12	low density lipoprotein-related protein 12	0.000676394	Yes	No	No	No	No	No	No	No
80895	ILKAP	integrin-linked kinase-associated serine/threonine phosphatase 2C	0.000679408	Yes	No	No	No	No	No	No	No
201254	STRA13	stimulated by retinoic acid 13 homolog (mouse)	0.000680814	No	Yes	No	No	No	No	No	No
6342	SCP2	sterol carrier protein 2	0.000683376	No	Yes	No	No	No	No	No	No
169611	OLFML2A	olfactomedin-like 2A	0.000684627	Yes	No	No	No	No	No	No	No
64800	EFCAB6	EF-hand calcium binding domain 6	0.000684936	Yes	No	No	No	No	No	No	No
4904	YBX1	Y box binding protein 1	0.000685039	No	No	No	No	No	No	Yes	No
55143	CDC48	cell division cycle associated 8	0.000688604	No	No	No	No	No	No	Yes	No
23493	HEY2	hairly/enhancer-of-split related with YRPW motif 2	0.000690957	Yes	No	No	No	No	No	No	No
4253	CTAGE5	CTAGE family, member 5	0.000692961	Yes	No	No	No	No	No	No	No
5295	PIK3R1	phosphoinositide-3-kinase, regulatory subunit 1 (alpha)	0.000693443	Yes	No	No	No	No	No	No	No
10425	ARIH2	ariadne homolog 2 (Drosophila)	0.000697805	Yes	No	No	No	No	No	Yes	No
5099	PCDH7	protocadherin 7	0.000698696	Yes	No	No	No	No	No	No	No
11274	USP18	ubiquitin specific peptidase 18	0.000702891	Yes	No	No	No	No	No	No	No

1429	CRYZ	crystallin, zeta (quinone reductase)	0.000709787	No	No	No	No	No	Yes	No
23677	SH3BP4	SH3-domain binding protein 4	0.000713747	Yes	No	No	No	No	No	No
254050	LRRC43	leucine rich repeat containing 43	0.000717731	Yes	No	No	No	No	No	No
757	TMEM50B	transmembrane protein 50B	0.000721743	Yes	No	No	No	No	No	No
54101	RIPK4	receptor-interacting serine-threonine kinase 4	0.000724396	Yes	No	No	No	No	No	No
150737	TTC30B	tetratricopeptide repeat domain 30B	0.000725895	No	No	No	No	No	Yes	No
5189	PEX1	peroxisome biogenesis factor 1	0.000727909	Yes	No	No	No	No	No	No
81533	ITFG1	integrin alpha FG-GAP repeat containing 1	0.000730476	No	No	No	No	No	Yes	No
821	CANX	calnexin	0.000742939	Yes	Yes	No	No	No	No	No
10287	RGS19	regulator of G-protein signaling 19	0.000744259	Yes	No	No	No	No	No	No
23549	DNPEP	aspartyl aminopeptidase	0.00074454	Yes	No	No	No	No	No	No
275	AMT	aminomethyltransferase	0.000744627	Yes	No	No	No	No	No	No
3337	DNAJB1	DnaJ (Hsp40) homolog, subfamily B, member 1	0.000745684	No	Yes	No	No	No	No	No
64132	XYLT2	xylosyltransferase II	0.000748034	Yes	No	No	No	No	No	No
39948	FLJ45803	FLJ45803 protein	0.000751809	Yes	No	No	No	No	No	No
55601	DDX60	DEAD (Asp-Glu-Ala-Asp) box polypeptide 60	0.000754126	Yes	Yes	No	No	No	No	No
8073	PTP4A2	protein tyrosine phosphatase type IVA, member 2	0.00075648	No	No	No	No	No	Yes	No
123169	LEO1	Leo1, Paf1/RNA polymerase II complex component, homolog (S. cerevisiae)	0.000757527	No	No	No	No	No	Yes	No
57590	WDFY1	WD repeat and FYVE domain containing 1	0.000763523	Yes	Yes	No	No	No	No	No
9218	VAPA	VAMP (vesicle-associated membrane protein)-associated protein A, 33kDa	0.00076532	Yes	No	No	No	No	No	No
55867	SLC22A11	solute carrier family 22 (organic anion/urate transporter), member 11	0.000766168	Yes	No	No	No	No	No	No
10749	KIF1C	kinesin family member 1C	0.000766242	Yes	No	No	No	No	No	No
25619	CCRN4L	CCR4 carbon catabolite repression 4-like (S. cerevisiae)	0.000766275	No	Yes	No	No	No	Yes	No
51747	CROP	cisplatin resistance-associated overexpressed protein	0.000767278	Yes	No	No	No	No	No	No
22798	LAMB4	laminin, beta 4	0.00077097	Yes	No	No	No	No	No	No
7704	ZBTB16	zinc finger and BTB domain containing 16	0.000785352	Yes	No	No	No	No	No	No
3683	ITGAL	integrin, alpha L (antigen CD11A (p180), lymphocyte function-associated antigen 1; alpha polypeptide)	0.000791021	No	No	No	No	No	Yes	No
56994	CHPT1	choline phosphotransferase 1	0.000793531	Yes	No	No	No	No	No	No
3693	ITGB5	integrin, beta 5	0.000794079	Yes	No	No	No	No	No	No
286133	SCARA5	scavenger receptor class A, member 5 (putative)	0.000796258	Yes	No	No	No	No	No	No
23215	BAT2D1	BAT2 domain containing 1	0.000801713	No	No	No	No	No	Yes	Yes
54103	tcag7.1314	hypothetical protein LOC54103	0.000802252	Yes	No	No	No	No	No	No
5621	PRNP	prion protein (p27-30) (Creutzfeldt-Jakob disease, Gerstmann-Strausler-Scheinker syndrome, fatal familial insomnia)	0.00080758	Yes	No	No	No	No	No	No
54361	WNT4	wingless-type MMTV integration site family, member 4	0.000809176	Yes	No	No	No	No	No	No

134510	UBLCP1	ubiquitin-like domain containing CTD phosphatase 1	0.000809952	No	Yes	No	No	No	No	No	No
113791	PIK3IP1	phosphoinositide-3-kinase interacting protein 1	0.000810433	Yes	No	No	No	No	No	Yes	Yes
5600	MAPK11	mitogen-activated protein kinase 11	0.000812408	Yes	No	No	No	No	No	No	No
8741	TNFSF13	tumor necrosis factor (ligand) superfamily, member 13	0.000812513	Yes	No	No	No	No	No	No	No
912	CD1D	CD1d molecule	0.000813276	Yes	No	No	No	No	No	No	No
283229	EFCAB4A	EF-hand calcium binding domain 4A	0.000814328	Yes	No	No	No	No	No	No	No
9530	BAG4	BCL2-associated athanogene 4	0.000814426	No	No	No	No	No	No	Yes	No
339500	ZNF678	zinc finger protein 678	0.000815369	Yes	No	No	No	No	No	No	No
11193	WBP4	WW domain binding protein 4 (formin binding protein 21)	0.000815728	No	No	No	No	No	No	Yes	No
9369	NRXN3	neurexin 3	0.000816186	Yes	No	No	No	No	No	No	No
2649	NR6A1	nuclear receptor subfamily 6, group A, member 1	0.000816489	Yes	No	No	No	No	No	No	No
253769	WDR27	WD repeat domain 27	0.000821822	Yes	No	No	No	No	No	No	No
55788	LMBRD1	LMBR1 domain containing 1	0.00082632	Yes	No	No	No	No	No	No	No
147929	ZNF565	zinc finger protein 565	0.000833442	No	No	No	No	No	No	Yes	No
25920	COBRA1	cofactor of BRCA1	0.000833773	No	Yes	No	No	No	No	No	No
4257	MGST1	microsomal glutathione S-transferase 1	0.000836929	Yes	No	No	No	No	No	No	No
118788	PIK3AP1	phosphoinositide-3-kinase adaptor protein 1	0.000842066	Yes	No	No	No	No	No	No	No
51710	ZNF44	zinc finger protein 44	0.000843025	Yes	No	No	No	No	No	No	No
286336	FAM78A	family with sequence similarity 78, member A	0.000843804	Yes	No	No	No	No	No	No	No
1371	CPOX	coproporphyrinogen oxidase	0.000845757	Yes	No	No	No	No	No	No	No
84708	LNX1	ligand of numb-protein X 1	0.000849063	Yes	No	No	No	No	No	No	No
8558	CDK10	cyclin-dependent kinase 10	0.000851125	Yes	No	No	No	No	No	No	No
3696	ITGB8	integrin, beta 8	0.000853403	No	No	No	No	No	No	Yes	No
64919	BCL11B	B-cell CLL/lymphoma 11B (zinc finger protein)	0.000854388	No	Yes	No	No	No	No	No	No
64761	PARP12	poly (ADP-ribose) polymerase family, member 12	0.000855759	Yes	No	No	No	No	No	No	No
25925	ZNF521	zinc finger protein 521	0.000857648	Yes	No	No	No	No	No	No	No
2316	FLNA	filamin A, alpha (actin binding protein 280)	0.000857736	Yes	No	No	No	No	No	No	No
84905	ZNF341	zinc finger protein 341	0.000860619	Yes	No	No	No	No	No	No	No
1769	DNAH8	dynein, axonemal, heavy chain 8	0.000860989	Yes	No	No	No	No	No	No	No
64781	CERK	ceramide kinase	0.000862366	No	Yes	No	No	No	No	No	No
5052	PRDX1	peroxiredoxin 1	0.000862997	No	No	No	No	No	No	Yes	No
10090	UST	uronyl-2-sulfotransferase	0.000867128	Yes	Yes	No	No	No	No	No	No
10970	CKAP4	cytoskeleton-associated protein 4	0.000868715	Yes	No	No	No	No	No	No	No
627	BDNF	brain-derived neurotrophic factor	0.000869248	Yes	No	No	No	No	No	No	No

57817	HAMP	hepocidin antimicrobial peptide	0.000871359	No	Yes	No	No	No	No	No	No
116984	CENTD1	centaurin, delta 1	0.000873207	Yes	No	No	No	No	No	No	No
10636	RGS14	regulator of G-protein signaling 14	0.000874764	Yes	Yes	No	No	No	Yes	Yes	Yes
51411	BIN2	bridging integrator 2	0.000878446	Yes	Yes	No	No	No	No	No	No
84440	RAB11FIP4	RAB11 family interacting protein 4 (class II)	0.000880127	Yes	No	No	No	No	No	No	No
6039	RNASE6	ribonuclease, RNase A family, k6	0.000883039	Yes	No	No	No	No	No	No	No
2012	EMP1	epithelial membrane protein 1	0.000886408	Yes	No	No	No	No	No	No	No
7545	ZIC1	Zic family member 1 (odd-paired homolog, Drosophila)	0.000886569	Yes	No	No	No	No	No	No	No
9788	MTSS1	metastasis suppressor 1	0.000890249	Yes	No	No	No	No	No	No	No
7260	TSSC1	tumor suppressing subtransferable candidate 1	0.000902228	No	No	No	No	No	Yes	No	No
54622	ARL15	ADP-ribosylation factor-like 15	0.000909608	Yes	No	No	No	No	No	No	No
84975	MFSD5	major facilitator superfamily domain containing 5	0.00091441	Yes	No	No	No	No	No	No	No
27235	COQ2	coenzyme Q2 homolog, prenyltransferase (yeast)	0.000920139	Yes	No	No	No	No	No	No	No
2246	FGF1	fibroblast growth factor 1 (acidic)	0.00092103	Yes	No	No	No	No	No	No	No
23304	UBR2	ubiquitin protein ligase E3 component n-recognin 2	0.000922655	Yes	No	No	No	No	No	No	No
10929	SFRS2B	splicing factor, arginine/serine-rich 2B	0.000922786	Yes	No	No	No	No	No	No	No
5045	FURIN	furin (paired basic amino acid cleaving enzyme)	0.000926034	Yes	No	No	No	No	No	No	No
374655	ZNF710	zinc finger protein 710	0.000929297	Yes	No	No	No	No	No	No	No
10399	GNB2L1	guanine nucleotide binding protein (G protein), beta polypeptide 2-like 1	0.000937586	No	No	No	No	No	Yes	No	No
5134	PDCD2	programmed cell death 2	0.000938681	Yes	No	No	No	No	No	No	No
7307	U2AF1	U2 small nuclear RNA auxiliary factor 1	0.000943538	Yes	No	No	No	No	No	No	No
56034	PDGFC	platelet derived growth factor C	0.000945248	Yes	No	No	No	No	No	No	No
85456	TNKS1BP1	tankyrase 1 binding protein 1, 182kDa	0.000945283	Yes	No	No	No	No	No	No	No
9166	EBAG9	estrogen receptor binding site associated, antigen, 9	0.000950263	No	No	No	No	No	Yes	No	No
3783	KCNN4	potassium intermediate/small conductance calcium-activated channel, subfamily N, member 4	0.000951739	Yes	No	No	No	No	No	No	No
165	AEBP1	AE binding protein 1	0.000954592	Yes	No	No	No	No	No	No	No
23254	RP1-21O18.1	kazrin	0.000963103	Yes	No	No	No	No	No	No	No
3229	HOXC13	homeobox C13	0.000975262	Yes	No	No	No	No	No	No	No
348654	GEN1	Gen homolog 1, endonuclease (Drosophila)	0.000980662	NA	No	No	No	No	Yes	No	No
64747	MFSD1	major facilitator superfamily domain containing 1	0.00098391	Yes	No	No	No	No	No	No	No
9889	ZBED4	zinc finger, BED-type containing 4	0.000988173	Yes	No	No	No	No	No	No	No
7699	ZNF140	zinc finger protein 140	0.000989556	Yes	No	No	No	No	No	No	No
26168	SENP3	SUMO1/sentrin/SMT3 specific peptidase 3	0.000990083	No	No	No	No	No	Yes	No	No
127018	LYPLAL1	lysophospholipase-like 1	0.000992616	No	Yes	No	No	No	No	No	No

124460	SNX20	sorting nexin 20	0.000996154	Yes	No	No	No	No	No	No	No
152926	PPM1K	protein phosphatase 1K (PP2C domain containing)	0.000997464	Yes	No	No	No	No	No	No	No
23670	TMEM2	transmembrane protein 2	0.000999127	Yes	No	No	No	No	No	No	No
5292	PIM1	pim-1 oncogene	0.00100187	No	No	No	No	No	No	Yes	No
54758	KLHDC4	kelch domain containing 4	0.00100274	No	No	No	No	No	No	Yes	No
160762	CDC63	coiled-coil domain containing 63	0.00100349	No	Yes	No	No	No	No	No	No
309	ANXA6	annexin A6	0.00101084	Yes	Yes	No	No	No	No	No	No
55277	FGGY	FGGY carbohydrate kinase domain containing	0.00102064	No	Yes	No	No	No	No	No	No
5306	PITPNA	phosphatidylinositol transfer protein, alpha	0.0010226	Yes	Yes	No	No	No	No	No	No
9692	KIAA0391	KIAA0391	0.00102376	No	No	No	No	No	No	Yes	No
85461	TANC1	tetratricopeptide repeat, ankyrin repeat and coiled-coil containing 1	0.00102623	Yes	No	No	No	No	No	No	No
57120	GOPC	golgi associated PDZ and coiled-coil motif containing	0.00102884	No	No	No	No	No	No	Yes	No
3705	ITPK1	inositol 1,3,4-trisphosphate 5/6 kinase	0.00103159	Yes	No	No	No	No	No	Yes	Yes
83872	HMCN1	hemicentin 1	0.00103791	No	Yes	No	No	No	No	No	No
23274	CLEC16A	C-type lectin domain family 16, member A	0.0010388	Yes	No	No	No	No	No	No	No
6909	TBX2	T-box 2	0.0010406	Yes	No	No	No	No	No	No	No
10401	PIAS3	protein inhibitor of activated STAT, 3	0.00104391	No	No	No	No	No	No	Yes	No
133746	JMY	junction-mediating and regulatory protein	0.00104397	Yes	No	No	No	No	No	No	No
760	CA2	carbonic anhydrase II	0.0010468	Yes	No	No	No	No	No	No	No
144453	BEST3	bestrophin 3	0.00105046	Yes	No	No	No	No	No	No	No
9588	PRDX6	peroxiredoxin 6	0.00105372	No	Yes	No	No	No	No	No	No
51287	CHCHD8	coiled-coil-helix-coiled-coil-helix domain containing 8	0.00105807	Yes	No	No	No	No	No	Yes	No
537	ATP6AP1	ATPase, H+ transporting, lysosomal accessory protein 1	0.00105829	Yes	No	No	No	No	No	No	No
57514	CDGAP	Cdc42 GTPase-activating protein	0.00106107	Yes	No	No	No	No	No	No	No
56648	EIF5A2	eukaryotic translation initiation factor 5A2	0.00106636	No	No	No	No	No	No	Yes	No
5445	PON2	paraoxonase 2	0.00106903	Yes	No	No	No	No	No	No	No
23309	SIN3B	SIN3 homolog B, transcription regulator (yeast)	0.00107076	Yes	No	No	No	No	No	No	No
2530	FUT8	fucosyltransferase 8 (alpha (1,6) fucosyltransferase)	0.00107523	Yes	Yes	No	No	No	No	No	No
9765	ZFYVE16	zinc finger, FYVE domain containing 16	0.00108091	Yes	No	No	No	No	No	No	No
57863	CADM3	cell adhesion molecule 3	0.00108356	Yes	No	No	No	No	No	No	No
2580	GAK	cyclin G associated kinase	0.00108649	Yes	No	No	No	No	No	Yes	No
23593	HEBP2	heme binding protein 2	0.0010866	Yes	Yes	No	No	No	No	Yes	No
11143	MYST2	MYST histone acetyltransferase 2	0.00108955	No	No	No	No	No	No	Yes	Yes
27352	SGSM3	small G protein signaling modulator 3	0.00109403	Yes	No	No	No	No	No	No	No

51667	NUB1	negative regulator of ubiquitin-like proteins 1	0.00110559	Yes	No	No	No	No	No	No	No
57118	CAMK1D	calcium/calmodulin-dependent protein kinase ID	0.00110758	Yes	No	No	No	No	No	No	No
112616	CMTM7	CKLF-like MARVEL transmembrane domain containing 7	0.00111154	Yes	No	No	No	No	No	No	No
3556	IL1RAP	interleukin 1 receptor accessory protein	0.00111175	Yes	No	No	No	No	No	No	No
147138	TMC8	transmembrane channel-like 8	0.00111703	Yes	No	No	No	No	No	No	No
526	ATP6V1B2	ATPase, H+ transporting, lysosomal 56/58kDa, V1 subunit B2	0.00112253	No	No	No	No	No	Yes	No	No
84450	ZNF512	zinc finger protein 512	0.00112309	No	Yes	No	No	No	No	No	No
4149	MAX	MYC associated factor X	0.00112317	Yes	No	No	No	No	No	No	No
55149	PAPD1	PAP associated domain containing 1	0.00112425	No	No	No	No	No	Yes	No	No
5579	PRKCB1	protein kinase C, beta 1	0.00113177	Yes	No	No	No	No	No	No	No
50853	VILL	villin-like	0.00113296	Yes	No	No	No	No	No	No	No
4708	NDUFB2	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 2, 8kDa	0.00113312	Yes	No	No	No	No	No	No	No
8565	YARS	tyrosyl-tRNA synthetase	0.00113765	No	No	No	No	No	Yes	No	No
825	CAPN3	calpain 3, (p94)	0.00114046	Yes	No	No	No	No	Yes	Yes	Yes
939	CD27	CD27 molecule	0.00114506	No	No	No	No	No	Yes	No	No
3988	LIPA	lipase A, lysosomal acid, cholesterol esterase (Wolman disease)	0.00114598	Yes	No	No	No	No	No	No	No
90427	BMF	Bcl2 modifying factor	0.00114826	Yes	Yes	No	No	No	No	No	No
5796	PTPRK	protein tyrosine phosphatase, receptor type, K	0.00115437	Yes	No	No	No	No	No	No	No
64779	MTHFSD	methenyltetrahydrofolate synthetase domain containing	0.00115471	Yes	No	No	No	No	No	No	No
118429	ANTXR2	anthrax toxin receptor 2	0.00115676	Yes	No	No	No	No	No	No	No
146540	ZNF785	zinc finger protein 785	0.00115709	Yes	No	No	No	No	No	No	No
171425	CLYBL	citrate lyase beta like	0.00115954	Yes	No	No	No	No	Yes	No	No
219749	ZNF25	zinc finger protein 25	0.00116095	Yes	No	No	No	No	No	No	No
5261	PHKG2	phosphorylase kinase, gamma 2 (testis)	0.00116259	Yes	No	No	No	No	No	No	No
2743	GLRB	glycine receptor, beta	0.00116413	Yes	No	No	No	No	No	No	No
51163	DBR1	debranching enzyme homolog 1 (S. cerevisiae)	0.00116485	Yes	No	No	No	No	No	No	No
5611	DNAJC3	DnaJ (Hsp40) homolog, subfamily C, member 3	0.00116868	No	No	No	No	No	Yes	No	No
23001	WDFY3	WD repeat and FYVE domain containing 3	0.00116922	Yes	No	No	No	No	No	No	No
6197	RPS6KA3	ribosomal protein S6 kinase, 90kDa, polypeptide 3	0.00117038	Yes	No	No	No	No	No	No	No
144165	PRICKLE1	prickle homolog 1 (Drosophila)	0.00117044	Yes	No	No	No	No	No	No	No
79817	MOBK12B	MOB1, Mps One Binder kinase activator-like 2B (yeast)	0.00117498	Yes	Yes	No	No	No	No	No	No
22822	PHLDA1	pleckstrin homology-like domain, family A, member 1	0.00117784	Yes	No	No	No	No	Yes	No	No
56882	CDC42SE1	CDC42 small effector 1	0.00117861	Yes	No	No	No	No	No	No	No
9477	MED20	mediator complex subunit 20	0.00117982	No	No	No	No	No	Yes	No	No

8082	SSPN	sarcospan (Kras oncogene-associated gene)	0.00117983	Yes	No	No	No	No	No	No	No
10241	CALCOCO2	calcium binding and coiled-coil domain 2	0.00118048	Yes	No	No	No	No	No	No	No
574040	SNORA6	small nucleolar RNA, H/ACA box 6	0.00118147	NA*	Yes	No	No	No	No	No	No
84735	CNDP1	carnosine dipeptidase 1 (metallopeptidase M20 family)	0.00118506	No	Yes	No	No	No	No	No	No
2669	GEM	GTP binding protein overexpressed in skeletal muscle	0.00119005	Yes	No	No	No	No	No	No	No
58499	ZNF462	zinc finger protein 462	0.00119031	Yes	No	No	No	No	No	No	No
25989	ULK3	unc-51-like kinase 3 (C. elegans)	0.00119493	Yes	No	No	No	No	No	No	No
6721	SREBF2	sterol regulatory element binding transcription factor 2	0.00119521	No	Yes	No	No	No	Yes	No	No
1650	DDOST	dolichyl-diphosphooligosaccharide-protein glycosyltransferase	0.00120226	No	Yes	No	No	No	No	No	No
328	APEX1	APEX nuclease (multifunctional DNA repair enzyme) 1	0.00120236	No	No	No	No	No	Yes	Yes	Yes
347734	SLC35B2	solute carrier family 35, member B2	0.00120479	No	No	No	No	No	Yes	No	No
131096	KCNH8	potassium voltage-gated channel, subfamily H (eag-related), member 8	0.00120907	Yes	No	No	No	No	Yes	No	No
51332	SPTBN5	spectrin, beta, non-erythrocytic 5	0.00121203	Yes	No	No	No	No	No	No	No
55281	TMEM140	transmembrane protein 140	0.00121369	Yes	Yes	No	No	No	Yes	No	No
57489	ODF2L	outer dense fiber of sperm tails 2-like	0.0012194	Yes	No	No	No	No	No	No	No
10390	CEPT1	choline/ethanolamine phosphotransferase 1	0.00122923	Yes	Yes	No	No	No	No	No	No
8942	KYNU	kynureninase (L-kynurenine hydrolase)	0.00122994	Yes	Yes	No	No	No	No	No	No
131450	CD200R1	CD200 receptor 1	0.00123201	Yes	No	No	No	No	No	No	No
54879	ST7L	suppression of tumorigenicity 7 like	0.00123304	No	No	No	No	No	Yes	No	No
10345	TRDN	triadin	0.0012343	No	Yes	No	No	No	No	No	No
3482	IGF2R	insulin-like growth factor 2 receptor	0.00124205	Yes	Yes	No	No	No	No	No	No
51804	SIX4	SIX homeobox 4	0.00124244	Yes	No	No	No	No	No	No	No
10507	SEMA4D	sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain (semaphorin) 4D	0.00124309	Yes	No	No	No	No	No	No	No
80820	EEP1	endonuclease/exonuclease/phosphatase family domain containing 1	0.00125023	No	No	No	No	No	Yes	No	No
5581	PRKCE	protein kinase C, epsilon	0.00125242	Yes	No	No	No	No	No	No	No
6883	TAF12	TAF12 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 20kDa	0.00126343	No	No	No	No	No	Yes	No	No
1657	DMXL1	Dmx-like 1	0.0012638	Yes	No	No	No	No	No	No	No
2737	GLI3	GLI-Kruppel family member GLI3 (Greig cephalopolysyndactyly syndrome)	0.00127163	Yes	No	No	No	No	No	No	No
64236	PDLIM2	PDZ and LIM domain 2 (mystique)	0.00127253	Yes	No	No	No	No	No	No	No
57406	ABHD6	abhydrolase domain containing 6	0.00127482	Yes	Yes	No	No	No	No	No	No
10385	BTN2A2	butyrophilin, subfamily 2, member A2	0.00128246	Yes	No	No	No	No	No	No	No
22920	KIFAP3	kinesin-associated protein 3	0.00128275	Yes	No	No	No	No	No	No	No
114134	SLC2A13	solute carrier family 2 (facilitated glucose transporter), member 13	0.0012861	Yes	No	No	No	No	No	No	No
902	CCNH	cyclin H	0.0012862	Yes	No	No	No	No	No	No	No

493	ATP2B4	ATPase, Ca++ transporting, plasma membrane 4	0.00129309	Yes	No	No	No	No	No	No	No
5318	PKP2	plakophilin 2	0.00129354	Yes	No	No	No	No	No	No	No
84950	PRPF38A	PRPF38 pre-mRNA processing factor 38 (yeast) domain containing A	0.00129666	No	No	No	No	No	Yes	No	No
55568	GALNT10	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 10 (GalNAc-T10)	0.00130017	Yes	Yes	No	No	No	Yes	Yes	Yes
10848	PPP1R13L	protein phosphatase 1, regulatory (inhibitor) subunit 13 like	0.00130497	No	No	No	No	No	Yes	No	No
4606	MYBPC2	myosin binding protein C, fast type	0.00130649	Yes	No	No	No	No	No	No	No
1973	EIF4A1	eukaryotic translation initiation factor 4A, isoform 1	0.00130852	Yes	No	No	No	No	No	No	No
395	ARHGAP6	Rho GTPase activating protein 6	0.00130913	Yes	No	No	No	No	No	No	No
55035	NOL8	nucleolar protein 8	0.00131316	No	No	No	No	No	Yes	No	No
5253	PHF2	PHD finger protein 2	0.00131455	Yes	No	No	No	No	No	No	No
3077	HFE	hemochromatosis	0.00132146	Yes	No	No	No	No	No	No	No
1837	DTNA	dystrobrevin, alpha	0.00133485	Yes	No	No	No	No	No	No	No
10365	KLF2	Kruppel-like factor 2 (lung)	0.00134557	Yes	No	No	No	No	No	No	No
221498	KIF6	kinesin family member 6	0.00135884	Yes	No	No	No	No	No	No	No
9422	ZNF264	zinc finger protein 264	0.00136021	Yes	No	No	No	No	Yes	Yes	Yes
79413	ZBED2	zinc finger, BED-type containing 2	0.00136123	Yes	No	No	No	No	No	No	No
126820	WDR63	WD repeat domain 63	0.00136206	Yes	No	No	No	No	No	No	No
389136	VGLL3	vestigial like 3 (Drosophila)	0.00136577	Yes	No	No	No	No	No	No	No
27161	EIF2C2	eukaryotic translation initiation factor 2C, 2	0.00136692	Yes	No	No	No	No	No	No	No
63874	ABHD4	abhydrolase domain containing 4	0.00136955	Yes	Yes	No	No	No	No	No	No
1131	CHRM3	cholinergic receptor, muscarinic 3	0.00138791	Yes	No	No	No	No	No	No	No
3882	KRT32	keratin 32	0.00138952	Yes	No	No	No	No	No	No	No
7694	ZNF135	zinc finger protein 135	0.00139209	Yes	No	No	No	No	No	No	No
10955	SERINC3	serine incorporator 3	0.00140233	No	Yes	No	No	No	No	No	No
1043	CD52	CD52 molecule	0.00141918	Yes	No	No	No	No	Yes	Yes	Yes
91544	UBXD5	UBX domain containing 5	0.00141918	Yes	No	No	No	No	Yes	No	No
55663	ZNF446	zinc finger protein 446	0.00142093	Yes	No	No	No	No	No	No	No
9568	GABBR2	gamma-aminobutyric acid (GABA) B receptor, 2	0.00142254	Yes	No	No	No	No	No	No	No
222521	C6orf224	chromosome 6 open reading frame 224	0.00142265	Yes	No	No	No	No	No	No	No
5970	RELA	v-rel reticuloendotheliosis viral oncogene homolog A, nuclear factor of kappa light polypeptide gene enhancer in B-cells 3, p65 (avian)	0.00142459	Yes	No	No	No	No	No	No	No
51256	TBC1D7	TBC1 domain family, member 7	0.00142851	No	No	No	No	No	Yes	No	No
3514	IGKC	immunoglobulin kappa constant	0.00143326	Yes	No	No	No	No	No	No	No
2175	FANCA	Fanconi anemia, complementation group A	0.00143405	No	Yes	No	No	No	No	No	No
92241	RCSD1	RCSD domain containing 1	0.00144054	Yes	No	No	No	No	No	No	No

648	BMI1	BMI1 polycomb ring finger oncogene	0.00144109	Yes	No	No	No	No	No	No	No
10397	NDRG1	N-myc downstream regulated gene 1	0.00144122	Yes	No	No	No	No	No	No	No
389792	IERSL	immediate early response 5-like	0.00144123	Yes	No	No	No	No	No	No	No
23585	TMEM50A	transmembrane protein 50A	0.00144324	Yes	No	No	No	No	No	Yes	No
473	RERE	arginine-glutamic acid dipeptide (RE) repeats	0.00144519	Yes	No	No	No	No	No	No	No
60437	CDH26	cadherin-like 26	0.00144673	Yes	No	No	No	No	No	No	No
8651	SOCS1	suppressor of cytokine signalling 1	0.00145106	No	No	No	No	No	No	Yes	No
610	HCN2	hyperpolarization activated cyclic nucleotide-gated potassium channel 2	0.00145353	No	Yes	No	No	No	No	No	No
1180	CLCN1	chloride channel 1, skeletal muscle (Thomsen disease, autosomal dominant)	0.00145988	Yes	No	No	No	No	No	No	No
84817	TXNDC17	thioredoxin domain containing 17	0.00146355	No	No	No	No	No	No	Yes	No
9851	KIAA0753	KIAA0753	0.00146355	No	No	No	No	No	No	Yes	No
11282	MGAT4B	mannosyl (alpha-1,3-)-glycoprotein beta-1,4-N-acetylglucosaminyltransferase, isozyme B	0.00146922	Yes	No	No	No	No	No	No	No
6348	CCL3	chemokine (C-C motif) ligand 3	0.00149039	Yes	No	No	No	No	No	Yes	No
10491	CRTAP	cartilage associated protein	0.00150139	Yes	No	No	No	No	No	No	No
9984	THOC1	THO complex 1	0.00150221	No	No	No	No	No	No	Yes	No
3839	KPNA3	karyopherin alpha 3 (importin alpha 4)	0.00150624	Yes	No	No	No	No	No	No	No
80309	SPHKAP	SPHK1 interactor, AKAP domain containing	0.00151044	Yes	No	No	No	No	No	No	No
169792	GLIS3	GLIS family zinc finger 3	0.00151177	Yes	No	No	No	No	No	No	No
716	C1S	complement component 1, s subcomponent	0.00151516	Yes	No	No	No	No	No	No	No
1746	DLX2	distal-less homeobox 2	0.00152069	No	No	No	No	No	No	Yes	No
57689	LRRC4C	leucine rich repeat containing 4C	0.00152755	Yes	No	No	No	No	No	No	No
554	AVPR2	arginine vasopressin receptor 2 (nephrogenic diabetes insipidus)	0.00152835	Yes	No	No	No	No	No	No	No
4055	LTBR	lymphotoxin beta receptor (TNFR superfamily, member 3)	0.00152847	Yes	No	No	No	No	No	No	No
254042	MAP1D	methionine aminopeptidase 1D	0.0015287	Yes	No	No	No	No	No	No	No
127733	UBXD3	UBX domain containing 3	0.00153325	Yes	No	No	No	No	No	No	No
79840	NHEJ1	nonhomologous end-joining factor 1	0.00153717	Yes	No	No	No	No	No	No	No
3824	KLRD1	killer cell lectin-like receptor subfamily D, member 1	0.00154874	Yes	No	No	No	No	No	No	No
27334	P2RY10	purinergic receptor P2Y, G-protein coupled, 10	0.0015502	Yes	Yes	No	No	No	No	No	No
122773	KLHDC1	kelch domain containing 1	0.00155066	Yes	No	No	No	No	No	No	No
90102	PHLDB2	pleckstrin homology-like domain, family B, member 2	0.0015545	Yes	No	No	No	No	No	No	No
121601	TMEM16D	transmembrane protein 16D	0.001561	Yes	No	No	No	No	No	No	No
257641	NPC1	Nasopharyngeal carcinoma 1	0.00156118	NA	No	No	No	No	No	Yes	No
64224	HERPUD2	HERPUD family member 2	0.00156456	Yes	Yes	No	No	No	No	No	No
54861	SNRK	SNF related kinase	0.00158631	Yes	No	No	No	No	No	No	No

8861	LDB1	LIM domain binding 1	0.00158975	Yes	No	No	No	No	No	No	No
10526	IPO8	importin 8	0.00159231	No	No	No	No	No	Yes	No	No
8458	TTF2	transcription termination factor, RNA polymerase II	0.00160583	No	No	No	No	No	Yes	No	No
132160	PPM1M	protein phosphatase 1M (PP2C domain containing)	0.00160586	Yes	No	No	No	No	No	No	No
5683	PSMA2	proteasome (prosome, macropain) subunit, alpha type, 2	0.00160909	No	No	No	No	No	Yes	No	No
10914	PAPOLA	poly(A) polymerase alpha	0.00161536	Yes	No	No	No	No	No	No	No
6638	SNRPN	small nuclear ribonucleoprotein polypeptide N	0.00162424	Yes	No	No	No	No	No	No	No
56252	ASXL2	additional sex combs like 2 (Drosophila)	0.00162509	Yes	No	No	No	No	No	No	No
9170	LPAR2	lysophosphatidic acid receptor 2	0.00162617	Yes	No	No	No	No	No	No	No
5498	PPOX	protoporphyrinogen oxidase	0.00162722	Yes	No	No	No	No	No	No	No
22838	RNF44	ring finger protein 44	0.0016312	Yes	No	No	No	No	No	No	No
50717	WDR42A	WD repeat domain 42A	0.00163186	Yes	No	No	No	No	No	No	No
2038	EPB42	erythrocyte membrane protein band 4.2	0.00163565	Yes	No	No	No	No	No	No	No
79922	MRM1	mitochondrial rRNA methyltransferase 1 homolog (S. cerevisiae)	0.00163569	No	No	No	No	No	Yes	No	No
8671	SLC4A4	solute carrier family 4, sodium bicarbonate cotransporter, member 4	0.00163833	Yes	No	No	No	No	No	No	No
123879	DCUN1D3	DCN1, defective in cullin neddylation 1, domain containing 3 (S. cerevisiae)	0.00164076	No	No	No	No	No	Yes	No	No
8836	GGH	gamma-glutamyl hydrolase (conjugase, foyl/polyglutamyl hydrolase)	0.00165136	No	Yes	No	No	No	No	No	No
6775	STAT4	signal transducer and activator of transcription 4	0.00165487	Yes	No	No	No	No	No	No	No
56937	PMEP1	prostate transmembrane protein, androgen induced 1	0.00165609	Yes	No	No	No	No	No	No	No
54629	FAM63B	family with sequence similarity 63, member B	0.00165964	Yes	No	No	No	No	No	No	No
220164	DOK6	docking protein 6	0.00166522	Yes	No	No	No	No	No	No	No
84419	C15orf48	chromosome 15 open reading frame 48	0.00167549	Yes	No	No	No	No	No	No	No
2135	EXTL2	exostosins (multiple)-like 2	0.00167772	Yes	Yes	No	No	No	Yes	No	No
11168	PSIP1	PC4 and SFRS1 interacting protein 1	0.00168887	No	No	No	No	No	Yes	No	No
84875	PARP10	poly (ADP-ribose) polymerase family, member 10	0.0016894	Yes	No	No	No	No	No	No	No
8814	CDKL1	cyclin-dependent kinase-like 1 (CDC2-related kinase)	0.00170012	Yes	No	No	No	No	No	No	No
25946	ZNF385A	zinc finger protein 385A	0.00170016	Yes	No	No	No	No	No	No	No
4832	NME3	non-metastatic cells 3, protein expressed in	0.00170334	Yes	No	No	No	No	No	No	No
55176	SEC61A2	Sec61 alpha 2 subunit (S. cerevisiae)	0.00170515	Yes	No	No	No	No	No	No	No
2548	GAA	glucosidase, alpha; acid (Pompe disease, glycogen storage disease type II)	0.00170784	Yes	No	No	No	No	No	No	No
10307	APBB3	amyloid beta (A4) precursor protein-binding, family B, member 3	0.00171117	Yes	No	No	No	No	Yes	No	No
3101	HK3	hexokinase 3 (white cell)	0.00172382	Yes	No	No	No	No	No	No	No
59338	PLEKHA1	pleckstrin homology domain containing, family A (phosphoinositide binding specific) member 1	0.00172709	Yes	No	No	No	No	No	No	No
79712	GTDC1	glycosyltransferase-like domain containing 1	0.00172806	No	Yes	No	No	No	No	No	No

80003	PCNXL2	pecanex-like 2 (Drosophila)	0.00172835	Yes	No	No	No	No	No	No	No
23152	CIC	capicua homolog (Drosophila)	0.00173739	No	No	No	No	No	Yes	No	No
2132	EXT2	exostosins (multiple) 2	0.00174439	No	Yes	No	No	No	No	No	No
27128	PSCD4	pleckstrin homology, Sec7 and coiled-coil domains 4	0.00174702	Yes	No	No	No	No	No	No	No
55968	NSFL1C	NSFL1 (p97) cofactor (p47)	0.00174818	Yes	No	No	No	No	No	No	No
6139	RPL17	ribosomal protein L17	0.00175292	Yes	No	No	No	No	No	No	No
57452	GALNTL1	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase-like 1	0.00175511	Yes	No	No	No	No	No	No	No
9121	SLC16A5	solute carrier family 16, member 5 (monocarboxylic acid transporter 6)	0.00175558	Yes	No	No	No	No	No	No	No
2512	FTL	ferritin, light polypeptide	0.0017631	Yes	No	No	No	No	No	No	No
63940	GPSM3	G-protein signaling modulator 3 (AGS3-like, C. elegans)	0.00176839	Yes	No	No	No	No	No	No	No
80824	DUSP16	dual specificity phosphatase 16	0.00177221	Yes	No	No	No	No	No	No	No
3689	ITGB2	integrin, beta 2 (complement component 3 receptor 3 and 4 subunit)	0.00177655	Yes	No	No	No	No	Yes	Yes	Yes
126393	HSPB6	heat shock protein, alpha-crystallin-related, B6	0.00177797	Yes	No	No	No	No	No	No	No
22904	SBNO2	strawberry notch homolog 2 (Drosophila)	0.0017832	Yes	No	No	No	No	No	No	No
170691	ADAMTS17	ADAM metalloproteinase with thrombospondin type 1 motif, 17	0.00178369	Yes	No	No	No	No	No	No	No
3240	HP	haptoglobin	0.00178798	No	Yes	No	No	No	No	No	No
8926	SNURF	SNRPN upstream reading frame	0.00179108	Yes	No	No	No	No	No	No	No
64393	ZMAT3	zinc finger, matrix type 3	0.00179608	Yes	No	No	No	No	No	No	No
79667	FLJ13197	hypothetical FLJ13197	0.00179716	Yes	No	No	No	No	No	No	No
84572	GNPTG	N-acetylglucosamine-1-phosphate transferase, gamma subunit	0.00180605	Yes	No	No	No	No	No	No	No
682	BSG	basigin (Ok blood group)	0.00181237	No	No	No	No	No	Yes	No	No
54732	TMED9	transmembrane emp24 protein transport domain containing 9	0.00182494	Yes	No	No	No	No	No	No	No
1522	CTS2	cathepsin 2	0.00182515	Yes	No	No	No	No	No	No	No
4239	MFAP4	microfibrillar-associated protein 4	0.00182614	Yes	No	No	No	No	No	No	No
5468	PPARG	peroxisome proliferator-activated receptor gamma	0.00182908	Yes	No	No	No	No	No	No	No
9368	SLC9A3R1	solute carrier family 9 (sodium/hydrogen exchanger), member 3 regulator 1	0.00183142	Yes	No	No	No	No	No	No	No
4338	MOCS2	molybdenum cofactor synthesis 2	0.00183177	Yes	No	No	No	No	No	No	No
10519	CIB1	calcium and integrin binding 1 (calmyrin)	0.00183375	Yes	No	No	No	No	Yes	Yes	Yes
430	ASCL2	achaete-scute complex homolog 2 (Drosophila)	0.00183794	Yes	No	No	No	No	No	No	No
8440	NCK2	NCK adaptor protein 2	0.00185016	Yes	No	No	No	No	No	No	No
255104	TMCO4	transmembrane and coiled-coil domains 4	0.00185645	Yes	No	No	No	No	No	No	No
26301	GBGT1	glucosyltransferase alpha-1,3-N-acetylgalactosaminyltransferase 1	0.00187139	Yes	No	No	No	No	No	No	No
2876	GPX1	glutathione peroxidase 1	0.00187385	Yes	No	No	No	No	No	No	No
7150	TOP1	topoisomerase (DNA) I	0.00187564	No	Yes	No	No	No	No	No	No

1822	ATN1	atrophin 1	0.00188508	Yes	No	No	No	No	No	No	No
1730	DIAPH2	diaphanous homolog 2 (Drosophila)	0.00188704	Yes	No	No	No	No	No	No	No
10553	HTATIP2	HIV-1 Tat interactive protein 2, 30kDa	0.00188772	Yes	No	No	No	No	No	No	No
6633	SNRPD2	small nuclear ribonucleoprotein D2 polypeptide 16.5kDa	0.00189669	No	No	No	No	No	Yes	No	No
147040	KCTD11	potassium channel tetramerisation domain containing 11	0.00189803	Yes	No	No	No	No	No	No	No
55135	WDR79	WD repeat domain 79	0.00190591	No	No	No	No	No	Yes	No	No
84924	ZNF566	zinc finger protein 566	0.00191538	Yes	No	No	No	No	No	No	No
56112	PCDHGA3	protocadherin gamma subfamily A, 3	0.00191657	No	Yes	No	No	No	No	No	No
91	ACVR1B	activin A receptor, type 1B	0.00192191	Yes	No	No	No	No	No	No	No
85441	PRIC285	peroxisomal proliferator-activated receptor A interacting complex 285	0.00192309	Yes	No	No	No	No	No	No	No
4140	MARK3	MAP/microtubule affinity-regulating kinase 3	0.00192976	Yes	No	No	No	No	No	No	No
7036	TFR2	transferrin receptor 2	0.00193143	Yes	No	No	No	No	No	No	No
1308	COL17A1	collagen, type XVII, alpha 1	0.00193416	Yes	No	No	No	No	No	No	No
3479	IGF1	insulin-like growth factor 1 (somatomedin C)	0.00193458	Yes	No	No	No	No	No	No	No
25827	FBXL2	F-box and leucine-rich repeat protein 2	0.0019355	Yes	No	No	No	No	No	No	No
3055	HCK	hemopoietic cell kinase	0.00194302	Yes	No	No	No	No	Yes	No	No
8034	SLC25A16	solute carrier family 25 (mitochondrial carrier, Graves disease autoantigen), member 16	0.00194711	Yes	No	No	No	No	No	No	No
146057	TTBK2	tau tubulin kinase 2	0.00194729	Yes	No	No	No	No	Yes	No	No
6672	SP100	SP100 nuclear antigen	0.00195135	Yes	Yes	No	No	No	No	No	No
7422	VEGFA	vascular endothelial growth factor A	0.00197243	Yes	No	No	No	No	Yes	No	No
389677	RBM12B	RNA binding motif protein 12B	0.00198523	No	Yes	No	No	No	No	No	No
220441	RNF152	ring finger protein 152	0.00199067	Yes	No	No	No	No	No	No	No
4259	MGST3	microsomal glutathione S-transferase 3	0.00200006	Yes	No	No	No	No	No	No	No
10785	JARID1B	jumonji, AT rich interactive domain 1B	0.00200024	Yes	No	No	No	No	No	No	No
84705	GTPBP3	GTP binding protein 3 (mitochondrial)	0.00200462	No	No	No	No	No	Yes	No	No
57719	TMEM16H	transmembrane protein 16H	0.00200462	No	No	No	No	No	Yes	No	No
7850	IL1R2	interleukin 1 receptor, type II	0.0020055	Yes	No	No	No	No	No	No	No
9094	UNC119	unc-119 homolog (C. elegans)	0.00202118	Yes	No	No	No	No	No	No	No
5077	PAX3	paired box 3	0.00204066	Yes	No	No	No	No	No	No	No
7306	TYRP1	tyrosinase-related protein 1	0.00205205	Yes	No	No	No	No	No	No	No
79924	ADM2	adrenomedullin 2	0.0020662	No	Yes	No	No	No	No	No	No
9767	PHF16	PHD finger protein 16	0.00206671	Yes	No	No	No	No	No	No	No
8341	HIST1H2BN	histone cluster 1, H2bn	0.00206913	No	No	No	No	No	Yes	No	No
84109	GPR103	G protein-coupled receptor 103	0.00207608	Yes	No	No	No	No	No	No	No

80727	TTYH3	tweety homolog 3 (Drosophila)	0.00207867	Yes	No	No	No	No	No	No	No
4880	NPPC	natriuretic peptide precursor C	0.00209323	Yes	No	No	No	No	Yes	No	No
79896	THNSL1	threonine synthase-like 1 (S. cerevisiae)	0.00209512	Yes	Yes	No	No	No	No	No	No
83890	SPATA9	spermatogenesis associated 9	0.00209585	Yes	No	No	No	No	No	No	No
10846	PDE10A	phosphodiesterase 10A	0.0020991	Yes	No	No	No	No	No	No	No
5198	PFAS	phosphoribosylformylglycinamide synthase (FGAR amidotransferase)	0.0021115	Yes	No	No	No	No	Yes	No	No
84864	MINA	MYC induced nuclear antigen	0.00212682	Yes	No	No	No	No	No	No	No
6239	RREB1	ras responsive element binding protein 1	0.0021271	Yes	No	No	No	No	No	No	No
56301	SLC7A10	solute carrier family 7, (neutral amino acid transporter, y+ system) member 10	0.00214511	Yes	No	No	No	No	No	No	No
157638	FAM84B	family with sequence similarity 84, member B	0.00215724	Yes	No	No	No	No	No	No	No
27075	TSPAN13	tetraspanin 13	0.00216413	Yes	No	No	No	No	No	No	No
5744	PTHLH	parathyroid hormone-like hormone	0.00218771	Yes	No	No	No	No	No	No	No
203522	DDX26B	DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 26B	0.00220712	Yes	No	No	No	No	No	No	No
10221	TRIB1	tribbles homolog 1 (Drosophila)	0.00220733	Yes	No	No	No	No	No	No	No
9113	LATS1	LATS, large tumor suppressor, homolog 1 (Drosophila)	0.00221437	Yes	No	No	No	No	No	No	No
51166	AADAT	aminoadipate aminotransferase	0.00221501	Yes	No	No	No	No	No	No	No
50508	NOX3	NADPH oxidase 3	0.00221906	Yes	No	No	No	No	No	No	No
6907	TBL1X	transducin (beta)-like 1X-linked	0.00221963	Yes	No	No	No	No	No	No	No
157	ADRBK2	adrenergic, beta, receptor kinase 2	0.00222392	Yes	Yes	No	No	No	No	No	No
60481	ELOVL5	ELOVL family member 5, elongation of long chain fatty acids (FEN1/Elo2, SUR4/Elo3-like, yeast)	0.00223244	Yes	No	No	No	No	No	No	No
2624	GATA2	GATA binding protein 2	0.00223253	No	Yes	No	No	No	No	No	No
23370	ARHGEF18	rho/rac guanine nucleotide exchange factor (GEF) 18	0.00223409	Yes	No	No	No	No	No	No	No
56342	PPAN	peter pan homolog (Drosophila)	0.00223695	No	No	No	No	No	Yes	No	No
1952	CELSR2	cadherin, EGF LAG seven-pass G-type receptor 2 (flamingo homolog, Drosophila)	0.00224045	No	Yes	No	No	No	No	No	No
4807	NHLH1	nescient helix loop helix 1	0.00224464	Yes	No	No	No	No	No	No	No
6497	SKI	v-ski sarcoma viral oncogene homolog (avian)	0.00225888	Yes	No	No	No	No	No	No	No
4758	NEU1	sialidase 1 (lysosomal sialidase)	0.00227432	Yes	No	No	No	No	No	No	No
257068	PLCXD2	phosphatidylinositol-specific phospholipase C, X domain containing 2	0.00227793	Yes	No	No	No	No	No	No	No
4776	NFATC4	nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 4	0.00227942	No	No	No	No	No	Yes	No	No
23492	CBX7	chromobox homolog 7	0.0022849	Yes	No	No	No	No	No	No	No
9133	CCNB2	cyclin B2	0.00229591	No	Yes	No	No	No	No	No	No
25978	CHMP2B	chromatin modifying protein 2B	0.00229949	No	No	No	No	No	Yes	No	No
5376	PMP22	peripheral myelin protein 22	0.00231978	Yes	No	No	No	No	No	No	No
3759	KCNJ2	potassium inwardly-rectifying channel, subfamily J, member 2	0.00232247	Yes	No	No	No	No	No	No	No

23592	LEMD3	LEM domain containing 3	0.00232397	Yes	No	No	No	No	No	No	No
440400	RNASEK	ribonuclease, RNase K	0.00232577	No	No	No	No	No	No	Yes	No
56990	CDC42SE2	CDC42 small effector 2	0.00233891	Yes	No	No	No	No	No	No	No
60436	TGIF2	TGFB-induced factor homeobox 2	0.00233924	No	No	No	No	No	No	Yes	No
26993	AKAP8L	A kinase (PRKA) anchor protein 8-like	0.00235956	Yes	No	No	No	No	No	No	No
4122	MAN2A2	mannosidase, alpha, class 2A, member 2	0.00236151	Yes	No	No	No	No	No	No	No
113540	CMTM1	CKLF-like MARVEL transmembrane domain containing 1	0.00240746	Yes	No	No	No	No	No	No	No
5910	RAP1GDS1	RAP1, GTP-GDP dissociation stimulator 1	0.00241068	Yes	No	No	No	No	No	No	No
28514	DLL1	delta-like 1 (Drosophila)	0.00243325	Yes	No	No	No	No	No	No	No
652	BMP4	bone morphogenetic protein 4	0.0024345	Yes	No	No	No	No	No	No	No
28977	MRPL42	mitochondrial ribosomal protein L42	0.00244582	No	No	No	No	No	No	Yes	No
55810	FOXJ2	forkhead box J2	0.00244851	Yes	No	No	No	No	No	No	No
4063	LY9	lymphocyte antigen 9	0.00244863	Yes	Yes	No	No	No	No	No	No
4857	NOVA1	neuro-oncological ventral antigen 1	0.00244917	Yes	No	No	No	No	No	No	No
2819	GPD1	glycerol-3-phosphate dehydrogenase 1 (soluble)	0.00245412	Yes	No	No	No	No	No	No	No
9557	CHD1L	chromodomain helicase DNA binding protein 1-like	0.0024687	Yes	No	No	No	No	No	No	No
8824	CES2	carboxylesterase 2 (intestine, liver)	0.00246884	Yes	No	No	No	No	No	No	No
4867	NPHP1	nephronophthisis 1 (juvenile)	0.00247241	Yes	No	No	No	No	No	No	No
348013	FAM70B	family with sequence similarity 70, member B	0.00247772	NA	No	No	No	No	No	Yes	No
146923	RUNDC1	RUN domain containing 1	0.00247952	Yes	No	No	No	No	No	No	No
23625	FAM89B	family with sequence similarity 89, member B	0.00248417	Yes	No	No	No	No	No	No	No
51028	VPS36	vacuolar protein sorting 36 homolog (S. cerevisiae)	0.0024856	Yes	No	No	No	No	No	No	No
23353	UNC84A	unc-84 homolog A (C. elegans)	0.00248655	Yes	No	No	No	No	No	No	No
159	ADSS	adenylosuccinate synthase	0.00248673	Yes	No	No	No	No	No	No	No
5287	PIK3C2B	phosphoinositide-3-kinase, class 2, beta polypeptide	0.00248717	Yes	No	No	No	No	No	No	No
23236	PLCB1	phospholipase C, beta 1 (phosphoinositide-specific)	0.00249026	Yes	No	No	No	No	No	No	No
3190	HNRNPK	heterogeneous nuclear ribonucleoprotein K	0.00249333	No	No	No	No	No	No	Yes	No
9697	TRAM2	translocation associated membrane protein 2	0.00249681	Yes	No	No	No	No	No	No	No
10509	SEMA4B	sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain (semaphorin) 4B	0.00250446	Yes	No	No	No	No	No	No	No
84868	HAVCR2	hepatitis A virus cellular receptor 2	0.00251256	Yes	No	No	No	No	No	No	No
340351	AGBL3	ATP/GTP binding protein-like 3	0.00251313	Yes	No	No	No	No	No	No	No
9572	NR1D1	nuclear receptor subfamily 1, group D, member 1	0.00251841	Yes	No	No	No	No	No	No	No
22869	ZNF510	zinc finger protein 510	0.00255166	Yes	No	No	No	No	No	No	No
162427	FAM134C	family with sequence similarity 134, member C	0.00256169	Yes	No	No	No	No	No	No	No

2043	EPHA4	EPH receptor A4	0.00257096	Yes	No	No	No	No	No	No	No
51317	PHF21A	PHD finger protein 21A	0.00257179	Yes	No	No	No	No	No	No	No
390327	OR6C70	olfactory receptor, family 6, subfamily C, member 70	0.00257303	NA*	Yes	No	No	No	No	No	No
197320	ZNF778	zinc finger protein 778	0.00258266	No	No	No	No	No	Yes	No	No
51274	KLF3	Kruppel-like factor 3 (basic)	0.00258478	Yes	No	No	No	No	No	No	No
9127	P2RX6	purinergic receptor P2X, ligand-gated ion channel, 6	0.00260204	Yes	No	No	No	No	No	No	No
7220	TRPC1	transient receptor potential cation channel, subfamily C, member 1	0.00263888	Yes	No	No	No	No	No	No	No
4668	NAGA	N-acetylgalactosaminidase, alpha-	0.00263964	Yes	No	No	No	No	No	No	No
266722	HS6ST3	heparan sulfate 6-O-sulfotransferase 3	0.00264298	No	Yes	No	No	No	No	No	No
64168	NECAB1	N-terminal EF-hand calcium binding protein 1	0.00266225	Yes	No	No	No	No	No	No	No
375790	AGRN	agrin	0.00266309	Yes	No	No	No	No	No	No	No
5208	PFKFB2	6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase 2	0.00267579	Yes	No	No	No	No	No	No	No
55186	SLC25A36	solute carrier family 25, member 36	0.00268059	No	No	No	No	No	Yes	No	No
10280	OPRS1	opioid receptor, sigma 1	0.00270324	Yes	No	No	No	No	No	No	No
2592	GALT	galactose-1-phosphate uridylyltransferase	0.00270324	Yes	No	No	No	No	No	No	No
80110	ZNF614	zinc finger protein 614	0.0027035	Yes	No	No	No	No	No	No	No
23671	TMEFF2	transmembrane protein with EGF-like and two follistatin-like domains 2	0.00270464	Yes	No	No	No	No	No	No	No
7318	UBA7	ubiquitin-like modifier activating enzyme 7	0.0027067	Yes	No	No	No	No	No	No	No
64432	MRPS25	mitochondrial ribosomal protein S25	0.00271248	Yes	No	No	No	No	No	No	No
2925	GRPR	gastrin-releasing peptide receptor	0.00272049	No	No	No	No	No	Yes	No	No
123016	TTC8	tetratricopeptide repeat domain 8	0.00272575	Yes	No	No	No	No	No	No	No
3712	IVD	isovaleryl Coenzyme A dehydrogenase	0.00273534	Yes	No	No	No	No	No	No	No
285362	SUMF1	sulfatase modifying factor 1	0.00275798	Yes	No	No	No	No	No	No	No
6294	SAFB	scaffold attachment factor B	0.00276077	No	Yes	No	No	No	No	No	No
9854	C2CD2L	C2CD2-like	0.0027665	Yes	No	No	No	No	No	No	No
1798	DPAGT1	dolichyl-phosphate (UDP-N-acetylglucosamine) N-acetylglucosaminophosphotransferase 1 (GlcNAc-4-P transferase)	0.0027665	No	No	No	No	No	Yes	No	No
27307	MAG	malignancy-associated gene	0.0027684	NA	No	No	No	No	Yes	No	No
51621	KLF13	Kruppel-like factor 13	0.00277387	Yes	No	No	No	No	No	No	No
2101	ESRRA	estrogen-related receptor alpha	0.00278091	No	No	No	No	No	Yes	Yes	Yes
9051	PSTPIP1	proline-serine-threonine phosphatase interacting protein 1	0.00278486	Yes	No	No	No	No	No	No	No
124583	CANT1	calcium activated nucleotidase 1	0.00279393	Yes	No	No	No	No	No	No	No
51060	TXNDC12	thioredoxin domain containing 12 (endoplasmic reticulum)	0.00279494	No	No	No	No	No	Yes	No	No
7327	UBE2G2	ubiquitin-conjugating enzyme E2G 2 (UBC7 homolog, yeast)	0.00280683	Yes	No	No	No	No	No	No	No
4734	NEDD4	neural precursor cell expressed, developmentally down-regulated 4	0.00281403	Yes	No	No	No	No	No	No	No

22934	RPIA	ribose 5-phosphate isomerase A (ribose 5-phosphate epimerase)	0.00282096	No	No	No	No	No	No	Yes	No
26108	PYGO1	pygopus homolog 1 (Drosophila)	0.00283321	Yes	No	No	No	No	No	No	No
3752	KCND3	potassium voltage-gated channel, Shal-related subfamily, member 3	0.00284054	Yes	No	No	No	No	No	No	No
5742	PTGS1	prostaglandin-endoperoxide synthase 1 (prostaglandin G/H synthase and cyclooxygenase)	0.00284534	Yes	No	No	No	No	No	No	No
50810	HDGFRP3	hepatoma-derived growth factor, related protein 3	0.00284808	Yes	No	No	No	No	No	No	No
7520	XRCC5	X-ray repair complementing defective repair in Chinese hamster cells 5 (double-strand-break rejoining Ku autoantigen, 80kDa)	0.00286522	Yes	No	No	No	No	No	No	No
64420	SUSD1	sushi domain containing 1	0.00286774	Yes	No	No	No	No	No	No	No
23597	ACOT9	acyl-CoA thioesterase 9	0.00288167	Yes	No	No	No	No	No	No	No
50862	RNF141	ring finger protein 141	0.0029002	Yes	No	No	No	No	No	No	No
130557	ZNF513	zinc finger protein 513	0.00291552	No	Yes	No	No	No	No	No	No
53616	ADAM22	ADAM metallopeptidase domain 22	0.00291561	Yes	No	No	No	No	No	No	No
4036	LRP2	low density lipoprotein-related protein 2	0.00293254	Yes	No	No	No	No	No	No	No
147947	ZNF542	zinc finger protein 542	0.002938	Yes	No	No	No	No	No	No	No
55718	POLR3E	polymerase (RNA) III (DNA directed) polypeptide E (80kD)	0.00294032	Yes	No	No	No	No	No	No	No
30833	NT5C	5', 3'-nucleotidase, cytosolic	0.0029423	Yes	No	No	No	No	No	No	No
8395	PIPK1B	phosphatidylinositol-4-phosphate 5-kinase, type 1, beta	0.00294254	Yes	No	No	No	No	No	No	No
55841	WWC3	WWC family member 3	0.00294572	Yes	No	No	No	No	No	No	No
7448	VTN	vitronectin	0.00294892	Yes	No	No	No	No	No	No	No
9270	ITGB1BP1	integrin beta 1 binding protein 1	0.00295628	No	No	No	No	No	No	Yes	No
11135	CDC42EP1	CDC42 effector protein (Rho GTPase binding) 1	0.00295954	No	Yes	No	No	No	No	No	No
50650	ARHGEF3	Rho guanine nucleotide exchange factor (GEF) 3	0.00297415	Yes	No	No	No	No	No	No	No
673	BRAF	v-raf murine sarcoma viral oncogene homolog B1	0.00298779	No	No	No	No	No	No	Yes	No
29108	PYCARD	PYD and CARD domain containing	0.00299731	Yes	No	No	No	No	No	No	No
3685	ITGAV	integrin, alpha V (vitronectin receptor, alpha polypeptide, antigen CD51)	0.00299946	No	Yes	No	No	No	No	No	No
5691	PSMB3	proteasome (prosome, macropain) subunit, beta type, 3	0.00300167	No	No	No	No	No	No	Yes	No
284161	GDPD1	glycerophosphodiester phosphodiesterase domain containing 1	0.00300289	Yes	No	No	No	No	No	No	No
10772	FUSIP1	FUS interacting protein (serine/arginine-rich) 1	0.00300661	No	No	No	No	No	No	Yes	No
23162	MAPK8IP3	mitogen-activated protein kinase 8 interacting protein 3	0.00301151	Yes	No	No	No	No	No	No	No
1880	EBI2	Epstein-Barr virus induced gene 2 (lymphocyte-specific G protein-coupled receptor)	0.00302325	Yes	Yes	No	No	No	No	No	No
1777	DNASE2	deoxyribonuclease II, lysosomal	0.00302925	Yes	No	No	No	No	No	No	No
9980	DOPEY2	dopey family member 2	0.00305894	Yes	No	No	No	No	No	No	No
3768	KCNJ12	potassium inwardly-rectifying channel, subfamily J, member 12	0.00307107	Yes	No	No	No	No	No	No	No
54805	CNNM2	cyclin M2	0.00308772	Yes	No	No	No	No	No	No	No
65018	PINK1	PTEN induced putative kinase 1	0.00308909	Yes	No	No	No	No	No	No	No

11031	RAB31	RAB31, member RAS oncogene family	0.00310728	Yes	Yes	No	No	No	No	No	No
55831	TMEM111	transmembrane protein 111	0.00310795	Yes	No	No	No	No	No	No	No
84002	B3GNT5	UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 5	0.00312167	Yes	No	No	No	No	No	No	No
26585	GREM1	gremlin 1, cysteine knot superfamily, homolog (Xenopus laevis)	0.00313099	Yes	No	No	No	No	No	No	No
56146	PCDHA2	protocadherin alpha 2	0.00313921	Yes	No	No	No	No	No	No	No
155038	GIMAP8	GTPase, IMAP family member 8	0.00314956	Yes	No	No	No	No	No	No	No
401040	FLJ45964	hypothetical FLJ45964	0.0031846	NA*	Yes	No	No	No	No	No	No
51108	METTL9	methyltransferase like 9	0.00318737	Yes	No	No	No	No	No	No	No
26164	GTPBP5	GTP binding protein 5 (putative)	0.0032074	Yes	No	No	No	No	No	No	No
23029	RBM34	RNA binding motif protein 34	0.00320926	No	No	No	No	No	Yes	No	No
150864	ALS2CR13	amyotrophic lateral sclerosis 2 (juvenile) chromosome region, candidate 13	0.00322697	Yes	No	No	No	No	No	No	No
4152	MBD1	methyl-CpG binding domain protein 1	0.00322917	Yes	No	No	No	No	No	No	No
7024	TFCP2	transcription factor CP2	0.00323328	Yes	No	No	No	No	No	No	No
8569	MKNK1	MAP kinase interacting serine/threonine kinase 1	0.0032352	Yes	Yes	No	No	No	No	No	No
79370	BCL2L14	BCL2-like 14 (apoptosis facilitator)	0.00325519	Yes	No	No	No	No	No	No	No
54982	CLN6	ceroid-lipofuscinosis, neuronal 6, late infantile, variant	0.0032552	Yes	No	No	No	No	No	No	No
56888	KCMF1	potassium channel modulatory factor 1	0.00325564	Yes	No	No	No	No	Yes	No	No
2078	ERG	eta-erythroblastosis virus E2b oncogene homolog (avian)	0.003257	Yes	No	No	No	No	No	No	No
283989	TSEN54	tRNA splicing endonuclease 54 homolog (S. cerevisiae)	0.0032601	Yes	No	No	No	No	No	No	No
23189	KANK1	KN motif and ankyrin repeat domains 1	0.00326026	No	Yes	No	No	No	No	No	No
83643	CCDC3	coiled-coil domain containing 3	0.00326113	Yes	No	No	No	No	No	No	No
6500	SKP1	S-phase kinase-associated protein 1	0.00326698	Yes	No	No	No	No	No	No	No
117608	ZNF354B	zinc finger protein 354B	0.00327498	Yes	No	No	No	No	No	No	No
84669	USP32	ubiquitin specific peptidase 32	0.00328374	Yes	No	No	No	No	Yes	No	No
991	CDC20	cell division cycle 20 homolog (S. cerevisiae)	0.00328404	No	No	No	No	No	Yes	No	No
26030	PLEKHG3	pleckstrin homology domain containing, family G (with RhoGef domain) member 3	0.00328709	Yes	No	No	No	No	No	No	No
10075	HUWE1	HECT, UBA and WWE domain containing 1	0.00329543	Yes	Yes	No	No	No	No	No	No
54708	MARCH5	membrane-associated ring finger (C3HC4) 5	0.00330613	No	No	No	No	No	Yes	No	No
56134	PCDHAC2	protocadherin alpha subfamily C, 2	0.00330962	Yes	No	No	No	No	No	No	No
8853	DDEF2	development and differentiation enhancing factor 2	0.0033113	Yes	No	No	No	No	No	No	No
254531	LPCAT4	lysophosphatidylcholine acyltransferase 4	0.00332038	Yes	No	No	No	No	No	No	No
23095	KIF1B	kinesin family member 1B	0.00332798	Yes	No	No	No	No	No	No	No
10870	HCST	hematopoietic cell signal transducer	0.00333648	No	No	No	No	No	Yes	No	No
390433	OR4K13	olfactory receptor, family 4, subfamily K, member 13	0.00335388	NA*	Yes	No	No	No	No	No	No

16981	SPIN3	spindlin family, member 3	0.00336125	Yes	Yes	No	No	No	No	No
27033	ZBTB32	zinc finger and BTB domain containing 32	0.00336683	Yes	No	No	No	No	No	No
3433	IFIT2	interferon-induced protein with tetratricopeptide repeats 2	0.00337812	Yes	Yes	No	No	No	No	No
51729	WBP11	WW domain binding protein 11	0.00338132	Yes	Yes	No	No	No	Yes	No
55885	LMO3	LIM domain only 3 (rhombotin-like 2)	0.0033896	Yes	No	No	No	No	No	No
51174	TUBD1	tubulin, delta 1	0.00339663	Yes	No	No	No	No	No	No
117584	RFPL	ring finger and FYVE-like domain containing 1	0.00339669	Yes	No	No	No	No	No	No
7375	USP4	ubiquitin specific peptidase 4 (proto-oncogene)	0.00340737	Yes	No	No	No	No	No	No
8882	ZNF259	zinc finger protein 259	0.00341146	No	No	No	No	No	Yes	No
5723	PSPH	phosphoserine phosphatase	0.0034123	No	Yes	No	No	No	No	No
27163	NAAA	N-acylethanolamine acid amidase	0.00342826	Yes	No	No	No	No	No	No
55922	NKRF	NFKB repressing factor	0.00342899	Yes	No	No	No	No	No	No
5434	POLR2E	polymerase (RNA) II (DNA directed) polypeptide E, 25kDa	0.00343462	Yes	No	No	No	No	No	No
3140	MR1	major histocompatibility complex, class I-related	0.0034372	Yes	No	No	No	No	No	No
4520	MTF1	metal-regulatory transcription factor 1	0.00343912	Yes	No	No	No	No	No	No
338440	TMEM16J	transmembrane protein 16J	0.00344259	Yes	No	No	No	No	No	No
139818	DOCK11	dedicator of cytokinesis 11	0.00345383	Yes	No	No	No	No	No	No
92935	MARS2	methionyl-tRNA synthetase 2, mitochondrial	0.0034595	No	No	No	No	No	Yes	No
5058	PAK1	p21 protein (Cdc42/Rac)-activated kinase 1	0.0034714	Yes	No	No	No	No	No	No
1136	CHRNA3	cholinergic receptor, nicotinic, alpha 3	0.00350211	Yes	No	No	No	No	No	No
8408	ULK1	unc-51-like kinase 1 (C. elegans)	0.00351267	Yes	No	No	No	No	No	No
3291	HSD11B2	hydroxysteroid (11-beta) dehydrogenase 2	0.0035141	Yes	No	No	No	No	No	No
154796	AMOT	angiomin	0.00351573	No	No	No	No	No	Yes	Yes
80148	PQLC1	PQ loop repeat containing 1	0.00354125	Yes	No	No	No	No	No	No
84911	ZNF382	zinc finger protein 382	0.00355063	Yes	No	No	No	No	No	No
9990	SLC12A6	solute carrier family 12 (potassium/chloride transporters), member 6	0.00356341	Yes	No	No	No	No	No	No
7227	TRPS1	trichorhinophalangeal syndrome 1	0.00356486	Yes	No	No	No	No	No	No
830	CAPZA2	capping protein (actin filament) muscle Z-line, alpha 2	0.00357599	Yes	No	No	No	No	No	No
8698	S1PR4	sphingosine-1-phosphate receptor 4	0.00359314	Yes	No	No	No	No	Yes	No
9635	CLCA2	CLCA family member 2, chloride channel regulator	0.00363847	Yes	No	No	No	No	No	No
23074	UHRF1BP1L	UHRF1 (ICBP90) binding protein 1-like	0.00364382	No	No	No	No	No	Yes	No
338	APOB	apolipoprotein B (including Ag(x) antigen)	0.00365265	No	Yes	No	No	No	No	No
79751	SLC25A22	solute carrier family 25 (mitochondrial carrier, glutamate), member 22	0.00366457	Yes	No	No	No	No	No	No
203	AK1	adenylate kinase 1	0.00366724	Yes	No	No	No	No	No	No

64755	C16orf58	chromosome 16 open reading frame 58	0.00367192	Yes	No	No	No	No	No	No	No
7295	TXN	thioredoxin	0.00367327	Yes	Yes	No	No	No	Yes	No	No
5023	P2RX1	purinergic receptor P2X, ligand-gated ion channel, 1	0.00368589	Yes	No	No	No	No	No	No	No
84901	NFATC2IP	nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 2 interacting protein	0.00369626	Yes	No	No	No	No	No	No	No
56106	PCDHGA10	protocadherin gamma subfamily A, 10	0.00370678	No	Yes	No	No	No	No	No	No
11046	SLC35D2	solute carrier family 35, member D2	0.00370915	Yes	No	No	No	No	No	No	No
56940	DUSP22	dual specificity phosphatase 22	0.0037183	Yes	Yes	No	No	No	No	No	No
7267	TTC3	tetratricopeptide repeat domain 3	0.0037951	Yes	No	No	No	No	No	No	No
22836	RHOBTB3	Rho-related BTB domain containing 3	0.00379943	Yes	No	No	No	No	No	No	No
8301	PICALM	phosphatidylinositol binding clathrin assembly protein	0.00380297	Yes	No	No	No	No	Yes	No	No
440836	LOC440836	similar to MGC52679 protein	0.00380676	Yes	No	No	No	No	No	No	No
53822	FXYP7	FXYP domain containing ion transport regulator 7	0.00381814	Yes	No	No	No	No	No	No	No
56243	KIAA1217	KIAA1217	0.00383651	Yes	No	No	No	No	No	No	No
55316	RSAD1	radical S-adenosyl methionine domain containing 1	0.00384563	Yes	No	No	No	No	No	No	No
9112	MTA1	metastasis associated 1	0.00386232	Yes	No	No	No	No	No	No	No
9510	ADAMTS1	ADAM metalloproteinase with thrombospondin type 1 motif, 1	0.00387239	Yes	No	No	No	No	No	No	No
65059	RAPH1	Ras association (RalGDS/AF-6) and pleckstrin homology domains 1	0.00388225	No	Yes	No	No	No	Yes	No	No
57214	KIAA1199	KIAA1199	0.00389414	Yes	No	No	No	No	No	No	No
22881	ANKRD6	ankyrin repeat domain 6	0.00389647	Yes	No	No	No	No	No	No	No
3300	DNAJB2	DnaJ (Hsp40) homolog, subfamily B, member 2	0.00391967	No	No	No	No	No	Yes	No	No
56894	AGPAT3	1-acylglycerol-3-phosphate O-acyltransferase 3	0.00392726	Yes	No	No	No	No	No	No	No
10893	MMP24	matrix metalloproteinase 24 (membrane-inserted)	0.00392971	Yes	No	No	No	No	No	No	No
151354	FAM84A	family with sequence similarity 84, member A	0.00393789	Yes	No	No	No	No	No	No	No
27109	ATP5S	ATP synthase, H+ transporting, mitochondrial F0 complex, subunit s (factor B)	0.00399184	No	Yes	No	No	No	No	No	No
23532	PRAME	preferentially expressed antigen in melanoma	0.00401566	Yes	No	No	No	No	No	No	No
7040	TGFB1	transforming growth factor, beta 1	0.00402287	Yes	No	No	No	No	No	No	No
91653	BOC	Boc homolog (mouse)	0.00402808	Yes	No	No	No	No	No	No	No
256380	SCML4	sex comb on midleg-like 4 (Drosophila)	0.00404102	Yes	No	No	No	No	No	No	No
51268	PIPOX	pipecolic acid oxidase	0.00407131	Yes	No	No	No	No	No	No	No
1855	DVL1	dishevelled, dsh homolog 1 (Drosophila)	0.00407147	No	Yes	No	No	No	No	No	No
3481	IGF2	insulin-like growth factor 2 (somatomedin A)	0.00408247	Yes	No	No	No	No	No	No	No
54962	TIPIN	TIMELESS interacting protein	0.00408481	No	No	No	No	No	Yes	No	No
79830	ZMYM1	zinc finger, MYM-type 1	0.00408676	No	No	No	No	No	Yes	No	No
259282	FAM44A	family with sequence similarity 44, member A	0.00408776	Yes	No	No	No	No	No	No	No

163154	MGC24975	hypothetical protein MGC24975	0.00410849	Yes	No	No	No	No	No	No	No
8453	CUL2	cullin 2	0.00412464	Yes	No	No	No	No	No	No	No
83733	SLC25A18	solute carrier family 25 (mitochondrial carrier), member 18	0.00411287	Yes	No	No	No	No	No	No	No
84078	KBTBD7	kelch repeat and BTB (POZ) domain containing 7	0.00414498	Yes	No	No	No	No	No	No	No
148281	SYT6	synaptotagmin VI	0.00415404	No	Yes	No	No	No	No	No	No
26472	PPP1R14B	protein phosphatase 1, regulatory (inhibitor) subunit 14B	0.00415721	No	Yes	No	No	No	No	No	No
285962	FLJ40852	hypothetical LOC285962	0.00415961	No	No	No	No	No	No	Yes	No
7077	TIMP2	TIMP metalloproteinase inhibitor 2	0.00418218	Yes	No	No	No	No	No	No	No
124935	SLC43A2	solute carrier family 43, member 2	0.00421222	Yes	No	No	No	No	No	No	No
6541	SLC7A1	solute carrier family 7 (cationic amino acid transporter, y+ system), member 1	0.00421449	Yes	No	No	No	No	No	No	No
55288	ECHDC2	enoyl Coenzyme A hydratase domain containing 2	0.00422475	Yes	No	No	No	No	No	No	No
64135	IFIH1	interferon induced with helicase C domain 1	0.00423645	Yes	Yes	No	No	No	No	Yes	No
9951	HS3ST4	heparan sulfate (glucosamine) 3-O-sulfotransferase 4	0.00423802	No	Yes	No	No	No	No	No	No
11001	SLC27A2	solute carrier family 27 (fatty acid transporter), member 2	0.00423846	Yes	No	No	No	No	No	No	No
4775	NFATC3	nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 3	0.00424174	Yes	No	No	No	No	No	No	No
57212	KIAA0495	KIAA0495	0.00424501	Yes	No	No	No	No	No	No	No
2984	GUCY2C	guanylate cyclase 2C (heat stable enterotoxin receptor)	0.00425576	Yes	No	No	No	No	No	No	No
6844	VAMP2	vesicle-associated membrane protein 2 (synaptobrevin 2)	0.00427094	Yes	No	No	No	No	No	No	No
23179	RGL1	ral guanine nucleotide dissociation stimulator-like 1	0.00429269	No	No	No	No	No	No	Yes	No
79166	LILRP2	leukocyte immunoglobulin-like receptor pseudogene 2	0.00429515	Yes	No	No	No	No	No	No	No
2037	EPB41L2	erythrocyte membrane protein band 4.1-like 2	0.00430222	Yes	No	No	No	No	No	No	No
22983	MAST1	microtubule associated serine/threonine kinase 1	0.00432163	Yes	No	No	No	No	No	No	No
24142	NAT6	N-acetyltransferase 6	0.00432995	Yes	No	No	No	No	No	No	No
7373	COL14A1	collagen, type XIV, alpha 1	0.00433627	Yes	No	No	No	No	No	No	No
400931	FLJ27365	FLJ27365 protein	0.004336218	Yes	No	No	No	No	No	No	No
221416	C6orf223	chromosome 6 open reading frame 223	0.00439085	No	Yes	No	No	No	No	No	No
463	ZFX3	zinc finger homeobox 3	0.00441128	Yes	No	No	No	No	No	No	No
6747	SSR3	signal sequence receptor, gamma (translocon-associated protein gamma)	0.00442059	No	Yes	No	No	No	No	No	No
79070	KDEL1	KDEL (Lys-Asp-Glu-Leu) containing 1	0.00443001	No	No	No	No	No	No	Yes	No
3043	HBB	hemoglobin, beta	0.00443102	Yes	No	No	No	No	No	No	No
65082	VPS33A	vacuolar protein sorting 33 homolog A (S. cerevisiae)	0.00443109	Yes	No	No	No	No	No	No	No
84513	PPAPDC1B	phosphatidic acid phosphatase type 2 domain containing 1B	0.00445576	Yes	No	No	No	No	No	No	No
4851	NOTCH1	Notch homolog 1, translocation-associated (Drosophila)	0.00447034	Yes	No	No	No	No	No	No	No
405	ARNT	aryl hydrocarbon receptor nuclear translocator	0.00450691	Yes	No	No	No	No	No	No	No

259230	SGMS1	sphingomyelin synthase 1	0.00454253	No	No	No	No	No	Yes	No
26278	SACS	spastic ataxia of Charlevoix-Saguenay (sacsin)	0.00454355	Yes	No	No	No	No	No	No
1787	TRDMT1	tRNA aspartic acid methyltransferase 1	0.0045452	Yes	No	No	No	No	No	No
10062	NR1H3	nuclear receptor subfamily 1, group H, member 3	0.00455409	No	No	No	No	No	Yes	No
1303	COL12A1	collagen, type XII, alpha 1	0.00456293	Yes	No	No	No	No	No	No
56889	TM9SF3	transmembrane 9 superfamily member 3	0.00456566	Yes	No	No	No	No	No	No
8986	RPS6KA4	ribosomal protein S6 kinase, 90kDa, polypeptide 4	0.004569	Yes	No	No	No	No	No	No
5935	RBM3	RNA binding motif (RNP1, RRM) protein 3	0.00458131	Yes	No	No	No	No	No	No
1519	CTSO	cathepsin O	0.00458209	Yes	No	No	No	No	No	No
92912	UBE2Q2	ubiquitin-conjugating enzyme E2Q family member 2	0.00458233	Yes	No	No	No	No	No	No
9855	FARP2	FERM, RhoGEF and pleckstrin domain protein 2	0.00458482	Yes	No	No	No	No	No	No
3275	PRMT2	protein arginine methyltransferase 2	0.00458672	Yes	No	No	No	No	No	No
7078	TIMP3	TIMP metalloproteinase inhibitor 3 (Sorsby fundus dystrophy, pseudoinflammatory)	0.00458766	Yes	No	No	No	No	No	No
26959	HBP1	HMG-box transcription factor 1	0.0046118	Yes	Yes	No	No	No	Yes	Yes
83549	UCK1	uridine-cytidine kinase 1	0.00462896	No	Yes	No	No	No	No	No
64359	NXX	nucleoredoxin	0.00463458	No	No	No	No	No	Yes	No
10215	OLIG2	oligodendrocyte lineage transcription factor 2	0.00463905	Yes	No	No	No	No	No	No
4656	MYOG	myogenin (myogenic factor 4)	0.00464182	Yes	No	No	No	No	No	No
56957	OTUD7B	OTU domain containing 7B	0.00464319	Yes	Yes	No	No	No	No	No
7567	ZNF19	zinc finger protein 19	0.00464743	No	Yes	No	No	No	No	No
10803	CCR9	chemokine (C-C motif) receptor 9	0.0046572	Yes	No	No	No	No	No	No
255082	CASC2	cancer susceptibility candidate 2	0.00472081	Yes	No	No	No	No	No	No
10291	SF3A1	splicing factor 3a, subunit 1, 120kDa	0.0047339	Yes	No	No	No	No	No	No
11190	CEP250	centrosomal protein 250kDa	0.00474956	Yes	No	No	No	No	No	No
130749	CPO	carboxypeptidase O	0.00476449	Yes	No	No	No	No	No	No
9159	PCSK7	proprotein convertase subtilisin/kexin type 7	0.00477623	Yes	No	No	No	No	No	No
257106	ARHGAP30	Rho GTPase activating protein 30	0.00478423	Yes	No	No	No	No	No	No
3075	CFH	complement factor H	0.00479356	Yes	No	No	No	No	No	No
57475	PLEKH1	pleckstrin homology domain containing, family H (with MyTH4 domain) member 1	0.00480518	Yes	Yes	No	No	No	No	No
8715	NOL4	nucleolar protein 4	0.00480715	Yes	No	No	No	No	No	No
2192	FBLN1	fibulin 1	0.00482422	Yes	No	No	No	No	No	No
9663	LPIN2	lipin 2	0.00484343	Yes	No	No	No	No	No	No
114824	PNMA5	paraneoplastic antigen like 5	0.0048705	NA*	Yes	No	No	No	No	No
5371	PML	promyelocytic leukemia	0.00491023	Yes	No	No	No	No	No	No

6415	SEPW1	selenoprotein W, 1	0.00491861	Yes	No	No	No	No	No	No	No
265	AMELX	amelogenin (amelogenesis imperfecta 1, X-linked)	0.00494133	Yes	No	No	No	No	No	No	No
55330	CNO	cappuccino homolog (mouse)	0.00495999	No	Yes	No	No	No	No	No	No
5738	PTGFRN	prostaglandin F2 receptor negative regulator	0.00496963	Yes	No	No	No	No	No	No	No
64080	RBKS	ribokinase	0.00497387	No	No	No	No	No	No	Yes	No
25792	CI21	CDKN1A interacting zinc finger protein 1	0.00498864	Yes	No	No	No	No	No	No	No
54585	LZTFL1	leucine zipper transcription factor-like 1	0.004993	Yes	No	No	No	No	No	Yes	No
10771	ZMYND11	zinc finger, MYND domain containing 11	0.00499334	Yes	No	No	No	No	No	No	No
222659	PXT1	peroxisomal, testis specific 1	0.00499863	Yes	No	No	No	No	No	No	No
6876	TAGLN	transgelin	0.00500595	Yes	No	No	No	No	No	No	No
5152	PDE9A	phosphodiesterase 9A	0.00501617	No	Yes	No	No	No	No	No	No
7166	TPH1	tryptophan hydroxylase 1 (tryptophan 5-monooxygenase)	0.00502648	Yes	No	No	No	No	No	No	No
85479	DNAJC5B	DnaJ (Hsp40) homolog, subfamily C, member 5 beta	0.00502942	Yes	No	No	No	No	No	No	No
10612	TRIM3	tripartite motif-containing 3	0.00503411	Yes	No	No	No	No	No	No	No
55521	TRIM36	tripartite motif-containing 36	0.00504026	Yes	No	No	No	No	No	No	No
91373	UAP1L1	UDP-N-acetylglucosamine pyrophosphorylase 1-like 1	0.00506314	Yes	No	No	No	No	No	No	No
65988	ZNF747	zinc finger protein 747	0.00506358	Yes	No	No	No	No	No	No	No
57562	KIAA1377	KIAA1377	0.00506977	Yes	No	No	No	No	No	No	No
283673	TMEM84	transmembrane protein 84	0.00507065	Yes	No	No	No	No	No	No	No
137835	TMEM71	transmembrane protein 71	0.0050772	Yes	No	No	No	No	No	No	No
401612	MCART6	mitochondrial carrier triple repeat 6	0.00508202	Yes	No	No	No	No	No	No	No
56965	PARP6	poly (ADP-ribose) polymerase family, member 6	0.00508253	Yes	No	No	No	No	No	No	No
55506	H2AFY2	H2A histone family, member Y2	0.00510416	Yes	No	No	No	No	No	No	No
6096	RORB	RAR-related orphan receptor B	0.00510451	Yes	No	No	No	No	No	No	No
112574	SNX18	sorting nexin 18	0.00510454	Yes	No	No	No	No	No	No	No
220042	C11orf82	chromosome 11 open reading frame 82	0.00514809	No	No	No	No	No	No	Yes	No
79085	SLC25A23	solute carrier family 25 (mitochondrial carrier, phosphate carrier), member 23	0.0051512	Yes	No	No	No	No	No	No	No
92359	CRB3	crumbs homolog 3 (Drosophila)	0.0051512	Yes	No	No	No	No	No	No	No
57486	NLN	neuroligin (metallopeptidase M3 family)	0.00515896	Yes	Yes	No	No	No	No	No	No
54020	SLC37A1	solute carrier family 37 (glycerol-3-phosphate transporter), member 1	0.00518028	No	Yes	No	No	No	No	No	No
27300	ZNF544	zinc finger protein 544	0.00519434	Yes	No	No	No	No	No	No	No
90634	N4BP2L1	NEDD4 binding protein 2-like 1	0.00519759	Yes	No	No	No	No	No	No	No
9056	SLC7A7	solute carrier family 7 (cationic amino acid transporter, y+ system), member 7	0.00523076	Yes	No	No	No	No	No	No	No
9747	FAM115A	family with sequence similarity 115, member A	0.00525867	Yes	No	No	No	No	No	No	No

80196	RNF34	ring finger protein 34	0.00525897	No	No	No	No	No	No	Yes	No
79918	SETD6	SET domain containing 6	0.00526006	Yes	No	No	No	No	No	No	No
57446	NDRG3	NDRG family member 3	0.00527131	Yes	No	No	No	No	No	No	No
23301	EHBP1	EH domain binding protein 1	0.00532349	Yes	No	No	No	No	No	No	No
10138	YAF2	YY1 associated factor 2	0.00533755	Yes	No	No	No	No	No	No	No
55095	SAMD4B	sterile alpha motif domain containing 4B	0.0053466	Yes	No	No	No	No	No	No	No
2710	GK	glycerol kinase	0.00535967	No	No	No	No	No	No	Yes	No
3053	SERPIND1	serpin peptidase inhibitor, clade D (heparin cofactor), member 1	0.00537665	Yes	No	No	No	No	No	No	No
55339	WDR33	WD repeat domain 33	0.00540989	Yes	No	No	No	No	No	No	No
90853	SPOCD1	SPOC domain containing 1	0.00541551	No	Yes	No	No	No	No	No	No
8531	CSDA	cold shock domain protein A	0.00541994	Yes	No	No	No	No	No	No	No
10690	FUT9	fucosyltransferase 9 (alpha (1,3) fucosyltransferase)	0.00542167	No	Yes	No	No	No	No	No	No
118980	SFXN2	sideroflexin 2	0.00542564	No	No	No	No	No	No	Yes	No
140628	GATA5	GATA binding protein 5	0.00542709	Yes	No	No	No	No	No	No	No
83416	FCRL5	Fc receptor-like 5	0.00543038	Yes	No	No	No	No	No	No	No
3205	HOXA9	homeobox A9	0.00544005	Yes	No	No	No	No	No	No	No
1525	CXADR	coxsackie virus and adenovirus receptor	0.00547326	Yes	No	No	No	No	No	No	No
10919	EHMT2	euchromatic histone-lysine N-methyltransferase 2	0.00549641	No	Yes	No	No	No	No	No	No
10793	ZNF273	zinc finger protein 273	0.00551065	Yes	No	No	No	No	No	No	No
22915	MMRN1	multimerin 1	0.00551625	Yes	No	No	No	No	No	No	No
58504	ARHGAP22	Rho GTPase activating protein 22	0.00552472	Yes	No	No	No	No	No	No	No
1315	COPB1	coatamer protein complex, subunit beta 1	0.00552809	Yes	No	No	No	No	No	No	No
56650	CLDN1	claudin domain containing 1	0.00553757	Yes	No	No	No	No	No	No	No
10535	RNASEH2A	ribonuclease H2, subunit A	0.00553946	No	No	No	No	No	No	Yes	No
3155	HMGCL	3-hydroxymethyl-3-methylglutaryl-Coenzyme A lyase (hydroxymethylglutaciduria)	0.00554579	No	No	No	No	No	No	Yes	No
860	RUNX2	runt-related transcription factor 2	0.00555803	Yes	No	No	No	No	No	No	No
219348	PLAC9	placenta-specific 9	0.00558606	Yes	No	No	No	No	No	No	No
5997	RGS2	regulator of G-protein signaling 2, 24kDa	0.00558702	No	No	No	No	No	No	Yes	No
51230	PHF20	PHD finger protein 20	0.00559102	Yes	Yes	No	No	No	No	No	No
6248	RSC1A1	regulatory solute carrier protein, family 1, member 1	0.00559809	Yes	No	No	No	No	No	No	No
29095	ORMDL2	ORM1-like 2 (S. cerevisiae)	0.00559831	No	No	No	No	No	No	Yes	No
84324	CIP29	cytokine induced protein 29 kDa	0.00559831	No	No	No	No	No	No	Yes	No
4817	NIT1	nitrilase 1	0.0055985	No	No	No	No	No	No	Yes	No
23590	PDSS1	prenyl (decaprenyl) diphosphate synthase, subunit 1	0.00560724	Yes	No	No	No	No	No	No	No

29957	SLC25A24	solute carrier family 25 (mitochondrial carrier, phosphate carrier), member 24	0.00562256	Yes	No	No	No	No	No	No	No
26279	PLA2G2D	phospholipase A2, group IID	0.0056344	Yes	No	No	No	No	No	No	No
10171	RCL1	RNA terminal phosphate cyclase-like 1	0.00565664	Yes	Yes	No	No	No	No	No	No
2618	GART	phosphoribosylglycinamide formyltransferase, phosphoribosylglycinamide synthetase, phosphoribosylaminimidazole synthetase	0.00566942	No	No	No	No	No	No	Yes	No
166336	PRICKLE2	prickle homolog 2 (Drosophila)	0.00568734	Yes	No	No	No	No	No	No	No
84895	FAM73B	family with sequence similarity 73, member B	0.00570458	Yes	No	No	No	No	No	No	No
9103	FCGR2C	Fc fragment of IgG, low affinity IIc, receptor for (CD32)	0.00570844	Yes	Yes	No	No	No	No	No	No
64866	CDCP1	CUB domain containing protein 1	0.00572398	Yes	No	No	No	No	No	No	No
260293	CYP4X1	cytochrome P450, family 4, subfamily X, polypeptide 1	0.00576871	Yes	No	No	No	No	No	No	No
27005	USP21	ubiquitin specific peptidase 21	0.00578411	Yes	No	No	No	No	No	No	No
6874	TAF4	TAF4 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 135kDa	0.00578527	Yes	No	No	No	No	No	Yes	No
54626	HES2	hairy and enhancer of split 2 (Drosophila)	0.00578681	Yes	No	No	No	No	No	No	No
1845	DUSP3	dual specificity phosphatase 3	0.00578817	Yes	No	No	No	No	No	No	No
27151	CPAMD8	C3 and PZP-like, alpha-2-macroglobulin domain containing 8	0.0057922	Yes	No	No	No	No	No	No	No
27141	CIDEB	cell death-inducing DFFA-like effector b	0.00580959	Yes	No	No	No	No	No	No	No
5481	PPID	peptidylprolyl isomerase D (cyclophilin D)	0.00583233	No	Yes	No	No	No	No	No	No
30815	ST6GALNAC6	ST6 (alpha-N-acetyl-neuraminy-2,3-beta-galactosyl-1,3)-N-acetylgalactosaminide alpha-2,6-sialyltransferase 6	0.00583585	Yes	No	No	No	No	No	No	No
81788	NUAK2	NUAK family, SNF1-like kinase, 2	0.00584753	Yes	No	No	No	No	No	No	No
83737	ITCH	itchy E3 ubiquitin protein ligase homolog (mouse)	0.0059006	Yes	Yes	No	No	No	No	No	No
9340	GLP2R	glucagon-like peptide 2 receptor	0.00590277	No	Yes	No	No	No	No	No	No
167153	PAPD4	PAP associated domain containing 4	0.00590485	Yes	No	No	No	No	No	No	No
6840	SVIL	supervillin	0.00593791	Yes	No	No	No	No	No	No	No
58533	SNX6	sorting nexin 6	0.00594809	Yes	Yes	No	No	No	No	No	No
169841	ZNF169	zinc finger protein 169	0.00596489	Yes	No	No	No	No	No	No	No
63892	THADA	thyroid adenoma associated	0.00597836	Yes	No	No	No	No	No	No	No
800	CALD1	caldesmon 1	0.0060105	Yes	No	No	No	No	No	No	No
10781	ZNF266	zinc finger protein 266	0.00601442	Yes	No	No	No	No	No	No	No
215	ABCD1	ATP-binding cassette, sub-family D (ALD), member 1	0.00601752	Yes	No	No	No	No	No	No	No
10383	TUBB2C	tubulin, beta 2C	0.00603919	No	Yes	No	No	No	No	No	No
7592	ZNF41	zinc finger protein 41	0.00605912	Yes	No	No	No	No	No	No	No
1936	EEF1D	eukaryotic translation elongation factor 1 delta (guanine nucleotide exchange protein)	0.0060673	Yes	No	No	No	No	No	No	No
285533	RNF175	ring finger protein 175	0.00609694	No	Yes	No	No	No	No	No	No
2847	MCHR1	melanin-concentrating hormone receptor 1	0.00611973	Yes	No	No	No	No	No	No	No
23098	SARM1	sterile alpha and TIR motif containing 1	0.0061234	Yes	No	No	No	No	No	No	No

3559	IL2RA	interleukin 2 receptor, alpha	0.00612959	Yes	No	No	No	No	No	No
89790	SIGLEC10	sialic acid binding Ig-like lectin 10	0.00614362	Yes	No	No	No	No	No	No
55101	ATP5SL	ATP5S-like	0.00615494	No	No	No	No	No	Yes	No
56126	PCDH10	protocadherin beta 10	0.00618176	Yes	No	No	No	No	No	No
10099	TSPAN3	tetraspanin 3	0.00618805	Yes	No	No	No	No	No	No
79094	CHAC1	Chac, cation transport regulator homolog 1 (E. coli)	0.00618953	No	Yes	No	No	No	No	No
2537	IFI6	interferon, alpha-inducible protein 6	0.00620283	Yes	No	No	No	No	No	No
8019	BRD3	bromodomain containing 3	0.00622689	Yes	No	No	No	No	No	No
26580	BSC12	Bernardinelli-Seip congenital lipodystrophy 2 (seipin)	0.00623812	Yes	No	No	No	No	Yes	Yes
143188	LOC143188	hypothetical LOC143188	0.00630102	Yes	No	No	No	No	No	No
81553	FAM49A	family with sequence similarity 49, member A	0.00630474	Yes	No	No	No	No	Yes	No
124411	ZNF720	zinc finger protein 720	0.00631752	Yes	No	No	No	No	No	No
6160	RPL31	ribosomal protein L31	0.00631792	Yes	No	No	No	No	No	No
55733	HHAT	hedgehog acyltransferase	0.00632178	Yes	Yes	No	No	No	No	No
3993	LLGL2	lethal giant larvae homolog 2 (Drosophila)	0.0063259	Yes	No	No	No	No	No	No
25861	DFNB31	deafness, autosomal recessive 31	0.00633614	Yes	No	No	No	No	No	No
25825	BACE2	beta-site APP-cleaving enzyme 2	0.00634696	No	Yes	No	No	No	No	No
22821	RASA3	RAS p21 protein activator 3	0.0063584	Yes	No	No	No	No	No	No
127829	ARL8A	ADP-ribosylation factor-like 8A	0.00637251	Yes	No	No	No	No	No	No
9488	PIGB	phosphatidylinositol glycan anchor biosynthesis, class B	0.00645511	No	No	No	No	No	Yes	No
65217	PCDH15	protocadherin 15	0.00646011	Yes	No	No	No	No	No	No
118490	ZMYND17	zinc finger, MYND-type containing 17	0.00647684	No	Yes	No	No	No	No	No
55615	PRR5	proline rich 5 (renal)	0.0064777	Yes	No	No	No	No	No	No
11346	SYNPO	synaptopodin	0.00652459	Yes	No	No	No	No	No	No
119	ADD2	adducin 2 (beta)	0.00653169	Yes	No	No	No	No	No	No
57333	RCN3	reticulocalbin 3, EF-hand calcium binding domain	0.00657302	Yes	No	No	No	No	No	No
23315	SLC9A8	solute carrier family 9 (sodium/hydrogen exchanger), member 8	0.00658363	No	No	No	No	No	Yes	No
54897	CASZ1	castor zinc finger 1	0.00659312	Yes	No	No	No	No	No	No
219287	FAM123A	family with sequence similarity 123A	0.00659487	Yes	No	No	No	No	No	No
10939	AFG3L2	AFG3 ATPase family gene 3-like 2 (yeast)	0.00661224	No	No	No	No	No	Yes	No
5087	PBX1	pre-B-cell leukemia homeobox 1	0.00661445	Yes	No	No	No	No	No	No
9926	LPGAT1	lysophosphatidylglycerol acyltransferase 1	0.00661888	Yes	No	No	No	No	No	No
126669	SHE	Src homology 2 domain containing E	0.00662156	Yes	No	No	No	No	No	No
149175	MANEAL	mannosidase, endo-alpha-like	0.00665912	Yes	No	No	No	No	No	No

9509	ADAMTS2	ADAM metalloproteinase with thrombospondin type 1 motif, 2	0.0066239	Yes	No	No	No	No	No	No	No
37	ACADVL	acyl-Coenzyme A dehydrogenase, very long chain	0.0066443	No	No	No	No	No	Yes	No	No
55139	ANKZF1	ankyrin repeat and zinc finger domain containing 1	0.0066699	Yes	No	No	No	No	No	No	No
85406	DNAJC14	DnaJ (Hsp40) homolog, subfamily C, member 14	0.00667487	No	Yes	No	No	No	No	No	No
9781	RNF144A	ring finger protein 144A	0.00668998	Yes	No	No	No	No	No	No	No
2889	RAPGEF1	Rap guanine nucleotide exchange factor (GEF) 1	0.00669105	Yes	No	No	No	No	No	No	No
55593	OTUD5	OTU domain containing 5	0.00669299	No	Yes	No	No	No	No	No	No
913	CD1E	CD1e molecule	0.00669549	Yes	No	No	No	No	No	No	No
224	ALDH3A2	aldehyde dehydrogenase 3 family, member A2	0.00673094	Yes	Yes	No	No	No	No	No	No
55897	MESP1	mesoderm posterior 1 homolog (mouse)	0.00674194	Yes	No	No	No	No	No	No	No
79991	OBFC1	oligonucleotide/oligosaccharide-binding fold containing 1	0.00674623	Yes	No	No	No	No	No	No	No
28952	CCDC22	coiled-coil domain containing 22	0.00675206	Yes	No	No	No	No	No	No	No
9766	KIAA0247	KIAA0247	0.00676451	No	Yes	No	No	No	No	No	No
140606	SELM	selenoprotein M	0.00678382	Yes	No	No	No	No	No	No	No
147949	ZNF583	zinc finger protein 583	0.00680318	Yes	No	No	No	No	No	No	No
7552	ZNF711	zinc finger protein 711	0.00681899	Yes	No	No	No	No	No	No	No
116123	FMO9P	flavin containing monooxygenase 9 pseudogene	0.00681935	Yes	No	No	No	No	No	No	No
7980	TFPI2	tissue factor pathway inhibitor 2	0.00686671	Yes	No	No	No	No	No	No	No
2810	SFN	stratifin	0.00690091	Yes	No	No	No	No	No	No	No
136892	TRIM50	tripartite motif-containing 50	0.00691216	No	Yes	No	No	No	No	No	No
5569	PKIA	protein kinase (cAMP-dependent, catalytic) inhibitor alpha	0.00695546	No	No	No	No	No	Yes	No	No
6376	CX3CL1	chemokine (C-X3-C motif) ligand 1	0.00697995	Yes	No	No	No	No	No	No	No
54876	C4orf30	chromosome 4 open reading frame 30	0.00699612	No	No	No	No	No	Yes	No	No
84172	POLR1B	polymerase (RNA) I polypeptide B, 128kDa	0.00704027	Yes	No	No	No	No	No	No	No
29997	GLTSCR2	glioma tumor suppressor candidate region gene 2	0.00704731	Yes	No	No	No	No	No	No	No
84282	RNF135	ring finger protein 135	0.00707585	Yes	No	No	No	No	Yes	No	No
51136	RNFT1	ring finger protein, transmembrane 1	0.00707643	Yes	No	No	No	No	No	No	No
101	ADAM8	ADAM metalloproteinase domain 8	0.00712095	Yes	No	No	No	No	No	No	No
11273	ATXN2L	ataxin 2-like	0.00713991	Yes	No	No	No	No	No	No	No
55744	C7orf44	chromosome 7 open reading frame 44	0.00717489	Yes	No	No	No	No	No	No	No
55643	BTBD2	BTB (POZ) domain containing 2	0.00718216	Yes	No	No	No	No	No	No	No
2547	XRCC6	X-ray repair complementing defective repair in Chinese hamster cells 6 (Ku autoantigen, 70kDa)	0.00718672	Yes	No	No	No	No	No	No	No
26020	LRP10	low density lipoprotein receptor-related protein 10	0.00718956	No	No	No	No	No	Yes	Yes	Yes
55742	PARVA	parvin, alpha	0.00720181	Yes	No	No	No	No	No	No	No

399474	TMEM200B	transmembrane protein 200B	0.00720723	Yes	No	No	No	No	No	No	No
140612	ZFP28	zinc finger protein 28 homolog (mouse)	0.00721007	Yes	No	No	No	No	No	No	No
79627	OGFRL1	opioid growth factor receptor-like 1	0.00721074	No	Yes	No	No	No	No	No	No
56658	TRIM39	tripartite motif-containing 39	0.00722283	Yes	No	No	No	No	No	Yes	No
84619	ZGPAT	zinc finger, CCH-type with G patch domain	0.00723118	Yes	No	No	No	No	No	No	No
3841	KPNA5	karyopherin alpha 5 (importin alpha 6)	0.00723212	Yes	No	No	No	No	No	No	No
134429	STARD4	SIAR-related lipid transfer (START) domain containing 4	0.00725092	Yes	No	No	No	No	No	No	No
150094	SNF1LK	SNF1-like kinase	0.00725116	Yes	No	No	No	No	No	Yes	Yes
163087	ZNF383	zinc finger protein 383	0.00725421	Yes	No	No	No	No	No	No	No
11238	CA5B	carbonic anhydrase VB, mitochondrial	0.00725782	Yes	No	No	No	No	No	No	No
6745	SSR1	signal sequence receptor, alpha (translocon-associated protein alpha)	0.00732225	Yes	No	No	No	No	No	No	No
930	CD19	CD19 molecule	0.00739115	Yes	No	No	No	No	No	No	No
29775	CARD10	caspase recruitment domain family, member 10	0.00741545	Yes	No	No	No	No	No	No	No
9454	HOMER3	homer homolog 3 (Drosophila)	0.00751509	Yes	No	No	No	No	No	No	No
2145	EZH1	enhancer of zeste homolog 1 (Drosophila)	0.00753401	Yes	No	No	No	No	No	No	No
9743	RICS	Rho GTPase-activating protein	0.00753671	Yes	No	No	No	No	No	No	No
3823	KLRC3	killer cell lectin-like receptor subfamily C, member 3	0.00754191	Yes	No	No	No	No	No	No	No
55335	NIPSNAP3B	nipsnap homolog 3B (C. elegans)	0.00754798	No	No	No	No	No	No	Yes	No
170850	KCNG3	potassium voltage-gated channel, subfamily G, member 3	0.00755368	Yes	No	No	No	No	No	No	No
133015	C4orf28	chromosome 4 open reading frame 28	0.0075646	Yes	No	No	No	No	No	No	No
8462	KLF11	Kruppel-like factor 11	0.00756865	Yes	No	No	No	No	No	No	No
7580	ZNF32	zinc finger protein 32	0.00759172	Yes	No	No	No	No	No	No	No
9254	CACNA2D2	calcium channel, voltage-dependent, alpha 2/delta subunit 2	0.00760279	Yes	No	No	No	No	No	No	No
120	ADD3	adducin 3 (gamma)	0.00762623	Yes	No	No	No	No	No	No	No
5027	P2RX7	purinergic receptor P2X, ligand-gated ion channel, 7	0.0076499	Yes	No	No	No	No	No	No	No
9263	STK17A	serine/threonine kinase 17a	0.00765805	Yes	No	No	No	No	No	No	No
80324	PUS1	pseudouridylylase synthase 1	0.00766767	Yes	No	No	No	No	No	No	No
3680	ITGA9	integrin, alpha 9	0.00770406	Yes	No	No	No	No	No	No	No
688	KLF5	Kruppel-like factor 5 (intestinal)	0.00772482	Yes	No	No	No	No	No	Yes	No
23191	CYFIP1	cytoplasmic FMR1 interacting protein 1	0.00773115	Yes	No	No	No	No	No	No	No
6258	RXRG	retinoid X receptor, gamma	0.00773675	Yes	No	No	No	No	No	No	No
6319	SCD	stearoyl-CoA desaturase (delta-9-desaturase)	0.00775145	Yes	No	No	No	No	No	No	No
139065	SLITRK4	SLIT and NTRK-like family, member 4	0.00775574	Yes	No	No	No	No	No	No	No
2549	GAB1	GRB2-associated binding protein 1	0.00775619	Yes	No	No	No	No	No	No	No

5564	PRKAB1	protein kinase, AMP-activated, beta 1 non-catalytic subunit	0.0077802	No	No	No	No	No	No	Yes	No
148268	ZNF570	zinc finger protein 570	0.00778743	Yes	No	No	No	No	No	Yes	No
4117	MAK	male germ cell-associated kinase	0.007791	Yes	No	No	No	No	No	No	No
11247	NXPH4	neurexophilin 4	0.00779549	No	Yes	No	No	No	No	No	No
9853	RUSC2	RUN and SH3 domain containing 2	0.00784053	Yes	No	No	No	No	No	No	No
8742	TNFSF12	tumor necrosis factor (ligand) superfamily, member 12	0.0078408	Yes	No	No	No	No	No	No	No
3908	LAMA2	laminin, alpha 2 (merosin, congenital muscular dystrophy)	0.00784501	Yes	No	No	No	No	No	No	No
53346	TM6SF1	transmembrane 6 superfamily member 1	0.00784741	Yes	No	No	No	No	No	No	No
356	FASLG	Fas ligand (TNF superfamily, member 6)	0.00787191	No	Yes	No	No	No	No	No	No
219855	SLC37A2	solute carrier family 37 (glycerol-3-phosphate transporter), member 2	0.00787364	No	No	No	No	No	No	Yes	No
10763	NES	nestin	0.00788416	Yes	No	No	No	No	No	No	No
147660	ZNF578	zinc finger protein 578	0.00789255	Yes	No	No	No	No	No	No	No
92106	OXNAD1	oxidoreductase NAD-binding domain containing 1	0.00791649	Yes	No	No	No	No	No	No	No
84527	ZNF559	zinc finger protein 559	0.00797574	Yes	No	No	No	No	No	Yes	No
116113	FOXP4	forkhead box P4	0.00798297	Yes	No	No	No	No	No	No	No
261734	NPHP4	nephronophthisis 4	0.00799129	No	No	No	No	No	No	Yes	No
7568	ZNF20	zinc finger protein 20	0.00799467	No	No	No	No	No	No	Yes	No
8669	EIF3J	eukaryotic translation initiation factor 3, subunit J	0.00801981	No	No	No	No	No	No	Yes	No
64750	SMURF2	SMAD specific E3 ubiquitin protein ligase 2	0.00808481	Yes	No	No	No	No	No	No	No
83594	NUDT12	nudix (nucleoside diphosphate linked moiety X)-type motif 12	0.00809258	Yes	No	No	No	No	No	No	No
2028	ENPEP	glutamyl aminopeptidase (aminopeptidase A)	0.00811042	Yes	No	No	No	No	No	No	No
55893	ZNF395	zinc finger protein 395	0.00811342	Yes	No	No	No	No	No	No	No
84173	RBED1	RNA binding motif and ELMO/CED-12 domain 1	0.00813361	Yes	No	No	No	No	No	Yes	No
84448	ABLIM2	actin binding LIM protein family, member 2	0.00814988	No	No	No	No	No	No	Yes	No
64105	CENPK	centromere protein K	0.00815018	No	No	No	No	No	No	Yes	No
55858	TMEM165	transmembrane protein 165	0.00815053	No	Yes	No	No	No	No	No	No
58485	TRAPPC1	trafficking protein particle complex 1	0.00816911	No	No	No	No	No	No	Yes	No
84060	DKFZP564O0523	hypothetical protein DKFZp564O0523	0.0081774	Yes	No	No	No	No	No	No	No
64087	MCCC2	methylcrotonyl-Coenzyme A carboxylase 2 (beta)	0.0081782	Yes	No	No	No	No	No	No	No
10625	IVNS1ABP	influenza virus NS1A binding protein	0.00817828	Yes	Yes	No	No	No	No	Yes	No
256435	ST6GALNAC3	ST6 (alpha-N-acetylneuraminy-2,3-beta-galactosyl-1,3)-N-acetylgalactosaminide alpha-2,6-sialyltransferase 3	0.00824654	Yes	No	No	No	No	No	Yes	No
23576	DDAH1	dimethylarginine dimethylaminohydrolase 1	0.00826481	No	Yes	No	No	No	No	No	No
23158	TBC1D9	TBC1 domain family, member 9 (with GRAM domain)	0.00827747	Yes	Yes	No	No	No	No	No	No
2634	GBP2	guanylate binding protein 2, interferon-inducible	0.00828896	Yes	No	No	No	No	No	No	No

9208	LRRFIP1	leucine rich repeat (in FLJI) interacting protein 1	0.00832613	Yes	No	No	No	No	No	No
55905	RNF114	ring finger protein 114	0.00833514	Yes	No	No	No	No	No	No
55127	HEATR1	HEAT repeat containing 1	0.00834587	Yes	No	No	No	No	Yes	No
55520	ELAC1	elaC homolog 1 (E. coli)	0.00836062	No	No	No	No	No	Yes	No
9391	CIAO1	cytosolic iron-sulfur protein assembly 1 homolog (S. cerevisiae)	0.00836312	Yes	No	No	No	No	No	No
162966	ZNF600	zinc finger protein 600	0.00838129	Yes	No	No	No	No	No	No
3821	KLRC1	killer cell lectin-like receptor subfamily C, member 1	0.00839119	Yes	No	No	No	No	No	No
3551	IKBKB	inhibitor of kappa light polypeptide gene enhancer in B-cells, kinase beta	0.00841014	Yes	No	No	No	No	No	No
79758	DHRS12	dehydrogenase/reductase (SDR family) member 12	0.00842104	Yes	No	No	No	No	No	No
114790	STK11IP	serine/threonine kinase 11 interacting protein	0.00846065	No	No	No	No	No	Yes	No
6259	RYK	RYK receptor-like tyrosine kinase	0.00849208	Yes	Yes	No	No	No	No	No
79156	PLEKHF1	pleckstrin homology domain containing, family F (with FYVE domain) member 1	0.00850261	Yes	No	No	No	No	No	No
79701	FLJ22222	hypothetical protein FLJ22222	0.00854759	Yes	No	No	No	No	No	No
2633	GBP1	guanylate binding protein 1, interferon-inducible, 67kDa	0.00854847	Yes	No	No	No	No	No	No
4741	NEFM	neurofilament, medium polypeptide 150kDa	0.00855411	Yes	No	No	No	No	No	No
131965	METTL6	methyltransferase like 6	0.00855902	Yes	No	No	No	No	No	No
113174	SAAL1	serum amyloid A-like 1	0.00859381	No	Yes	No	No	No	No	No
55625	ZDHHC7	zinc finger, DHC-type containing 7	0.00862484	No	No	No	No	No	Yes	No
6573	SLC19A1	solute carrier family 19 (folate transporter), member 1	0.00865577	Yes	No	No	No	No	No	No
5350	PLN	phospholamban	0.00867008	Yes	No	No	No	No	No	No
8710	SERPINF7	serpin peptidase inhibitor, clade B (ovalbumin), member 7	0.00869253	Yes	No	No	No	No	No	No
113510	HEL308	DNA helicase HEL308	0.00870566	Yes	No	No	No	No	Yes	No
3265	HRAS	v-Ha-ras Harvey rat sarcoma viral oncogene homolog	0.0087102	No	Yes	No	No	No	No	No
6940	ZNF354A	zinc finger protein 354A	0.00874609	Yes	No	No	No	No	No	No
3560	IL2RB	interleukin 2 receptor, beta	0.00874623	Yes	No	No	No	No	No	No
57085	AGTRAP	angiotensin II receptor-associated protein	0.00875552	Yes	No	No	No	No	No	No
119395	FAM26A	family with sequence similarity 26, member A	0.00876648	Yes	No	No	No	No	No	No
22914	KLRK1	killer cell lectin-like receptor subfamily K, member 1	0.00876807	Yes	No	No	No	No	No	No
8728	ADAM19	ADAM metalloproteinase domain 19 (meltrin beta)	0.00882474	Yes	No	No	No	No	No	No
55267	C22orf26	chromosome 22 open reading frame 26	0.00885566	Yes	No	No	No	No	No	No
53840	TRIM34	tripartite motif-containing 34	0.00886088	Yes	No	No	No	No	No	No
343990	C2orf55	chromosome 2 open reading frame 55	0.00886797	Yes	No	No	No	No	No	No
79705	LRRK1	leucine-rich repeat kinase 1	0.0088817	No	No	No	No	No	Yes	No
4034	LRCH4	leucine-rich repeats and calponin homology (CH) domain containing 4	0.00890634	Yes	No	No	No	No	No	No

271	AMPD2	adenosine monophosphate deaminase 2 (isoform L)	0.0089487	Yes	No	No	No	No	No	No	No
201294	UNC13D	unc-13 homolog D (C. elegans)	0.00896368	Yes	No	No	No	No	No	No	No
80067	C2orf37	chromosome 2 open reading frame 37	0.00897819	Yes	No	No	No	No	No	No	No
4804	NGFR	nerve growth factor receptor (TNFR superfamily, member 16)	0.00900369	Yes	No	No	No	No	No	No	No
7299	TYR	tyrosinase (oculocutaneous albinism IA)	0.00901694	No	Yes	No	No	No	No	No	No
3315	HSPB1	heat shock 27kDa protein 1	0.00902698	Yes	No	No	No	No	No	No	No
9194	SLC16A7	solute carrier family 16, member 7 (monocarboxylic acid transporter 2)	0.00903725	Yes	No	No	No	No	No	No	No
22900	PCNX	pecanex homolog (Drosophila)	0.00910605	Yes	No	No	No	No	No	No	No
9961	MVP	major vault protein	0.00913882	Yes	No	No	No	No	No	No	No
2626	GATA4	GATA binding protein 4	0.00917267	Yes	No	No	No	No	No	No	No
5279	PIGC	phosphatidylinositol glycan anchor biosynthesis, class C	0.00917672	Yes	No	No	No	No	No	No	No
55337	C19orf66	chromosome 19 open reading frame 66	0.00917772	Yes	No	No	No	No	No	No	No
1612	DAPK1	death-associated protein kinase 1	0.00918675	Yes	No	No	No	No	No	No	No
740	MRPL49	mitochondrial ribosomal protein L49	0.00920426	No	No	No	No	No	Yes	No	No
79744	ZNF419	zinc finger protein 419	0.00925039	Yes	No	No	No	No	No	No	No
667	DST	dystonin	0.00926141	Yes	No	No	No	No	No	No	No
22909	MTMR15	myotubularin related protein 15	0.00929393	Yes	No	No	No	No	No	No	No
10866	HCP5	HLA complex P5	0.00930223	Yes	No	No	No	No	No	No	No
9516	LITAF	lipopolysaccharide-induced TNF factor	0.00930246	Yes	Yes	No	No	No	No	No	No
6879	TAF7	TAF7 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 55kDa	0.00931352	No	No	No	No	No	Yes	No	No
5894	RAF1	v-raf-1 murine leukemia viral oncogene homolog 1	0.00932393	Yes	No	No	No	No	No	No	No
863	CBFA2T3	core-binding factor, runt domain, alpha subunit 2; translocated to, 3	0.00933972	Yes	No	No	No	No	No	No	No
54460	MRPS21	mitochondrial ribosomal protein S21	0.00939823	No	Yes	No	No	No	No	No	No
10313	RTN3	reticulon 3	0.00943371	No	Yes	No	No	No	No	No	No
23596	OPN3	opsin 3	0.00944979	Yes	Yes	No	No	No	Yes	No	No
4129	MAOB	monoamine oxidase B	0.00946712	Yes	No	No	No	No	No	No	No
79180	EFHD2	EF-hand domain family, member D2	0.00951341	Yes	No	No	No	No	No	No	No
4035	LRP1	low density lipoprotein-related protein 1 (alpha-2-macroglobulin receptor)	0.00960303	Yes	No	No	No	No	No	No	No
27335	EIF3K	eukaryotic translation initiation factor 3, subunit K	0.00960519	No	Yes	No	No	No	No	No	No
9024	BRSK2	BR serine/threonine kinase 2	0.00964225	Yes	No	No	No	No	No	No	No
1072	CFL1	cofilin 1 (non-muscle)	0.00964857	No	No	No	No	No	Yes	No	No
51510	CHMP5	chromatin modifying protein 5	0.00967073	No	No	No	No	No	Yes	No	No
29950	SERTAD1	SERTA domain containing 1	0.00968108	Yes	No	No	No	No	No	No	No
90416	C15orf57	chromosome 15 open reading frame 57	0.00969145	Yes	Yes	No	No	No	No	No	No

129852	FLJ40298	hypothetical protein FLJ40298	0.00970881	Yes	No	No	No	No	No	No
3576	IL8	interleukin 8	0.00971108	Yes	No	No	No	No	No	No
84838	ZNF496	zinc finger protein 496	0.00979323	Yes	No	No	No	No	No	No
10391	CORO2B	coronin, actin binding protein, 2B	0.00981012	Yes	No	No	No	No	Yes	No
23086	EXPH5	exophilin 5	0.0098246	Yes	No	No	No	No	No	No
2035	EPB41	erythrocyte membrane protein band 4.1 (elliptocytosis 1, RH-linked)	0.00983885	Yes	No	No	No	No	No	No
79581	GPR172A	G protein-coupled receptor 172A	0.009864	Yes	No	No	No	No	No	No
147807	ZNF524	zinc finger protein 524	0.00986429	No	Yes	No	No	No	No	No
284459	HKR1	GLI-Kruppel family member HKR1	0.00989375	Yes	No	No	No	No	No	No
10179	RBM7	RNA binding motif protein 7	0.0099338	No	No	No	No	No	Yes	No
1601	DAB2	disabled homolog 2, mitogen-responsive phosphoprotein (Drosophila)	0.0099626	Yes	No	No	No	No	No	No
11333	PDAP1	PDGFA associated protein 1	0.0100035	No	No	No	No	No	Yes	No
3094	HINT1	histidine triad nucleotide binding protein 1	0.0100625	Yes	No	No	No	No	No	No
3050	HBZ	hemoglobin, zeta	0.0100644	Yes	No	No	No	No	No	No
10887	PROKR1	prokineticin receptor 1	0.0100815	NA	No	No	No	No	Yes	No
284071	FLJ35848	hypothetical protein FLJ35848	0.0101348	Yes	No	No	No	No	No	No
5339	PLEC1	plectin 1, intermediate filament binding protein 500kDa	0.0101481	Yes	No	No	No	No	No	No
7392	USF2	upstream transcription factor 2, c-fos interacting	0.0101498	Yes	No	No	No	No	No	No
10082	GPC6	glypican 6	0.0102623	Yes	No	No	No	No	No	No
27232	GNMT	glycine N-methyltransferase	0.0102665	Yes	No	No	No	No	No	No
147495	APCDD1	adenomatosis polyposis coli down-regulated 1	0.0103139	Yes	No	No	No	No	No	No
10047	CST8	cystatin 8 (cystatin-related epididymal specific)	0.0103525	Yes	No	No	No	No	No	No
115111	SLC26A7	solute carrier family 26, member 7	0.0103569	Yes	No	No	No	No	No	No
23617	TSSK2	testis-specific serine kinase 2	0.0103684	Yes	No	No	No	No	No	No
1046	CDX4	caudal type homeobox 4	0.010384	Yes	No	No	No	No	No	No
3430	IFI35	interferon-induced protein 35	0.0103948	Yes	Yes	No	No	No	No	No
1355	COX15	COX15 homolog, cytochrome c oxidase assembly protein (yeast)	0.0104881	No	No	No	No	No	Yes	No
29801	ZDHHC8	zinc finger, DHHC-type containing 8	0.0105061	Yes	No	No	No	No	No	No
4303	FOXO4	forkhead box O4	0.0105064	No	No	No	No	No	Yes	Yes
6655	SOS2	son of sevenless homolog 2 (Drosophila)	0.0105289	Yes	No	No	No	No	No	No
286753	TUSC5	tumor suppressor candidate 5	0.0105303	Yes	No	No	No	No	No	No
23357	ANGEL1	angel homolog 1 (Drosophila)	0.0105593	Yes	No	No	No	No	No	No
26751	SH3YL1	SH3 domain containing, Ysc84-like 1 (S. cerevisiae)	0.0105752	Yes	No	No	No	No	Yes	Yes
57572	DOCK6	dedicator of cytokinesis 6	0.0106459	Yes	No	No	No	No	No	No

140460	ASB7	ankyrin repeat and SOCS box-containing 7	0.0106542	No	No	No	No	No	No	Yes	No
64895	PAPOLG	poly(A) polymerase gamma	0.0107133	Yes	No	No	No	No	No	No	No
8330	HIST1H2AK	histone cluster 1, H2ak	0.0107742	No	No	No	No	No	No	Yes	No
4674	NAP1L2	nucleosome assembly protein 1-like 2	0.010783	Yes	No	No	No	No	No	No	No
404093	CUEDC1	CUE domain containing 1	0.0108004	Yes	No	No	No	No	No	No	No
2619	GAS1	growth arrest-specific 1	0.0108424	Yes	No	No	No	No	No	No	No
8110	DPF3	D4, zinc and double PHD fingers, family 3	0.0108479	Yes	No	No	No	No	No	No	No
54996	MOSC2	MOCO sulphurase C-terminal domain containing 2	0.0109298	Yes	No	No	No	No	No	No	No
9759	HDAC4	histone deacetylase 4	0.0109462	Yes	No	No	No	No	No	No	No
7067	THRA	thyroid hormone receptor, alpha (erythroblastic leukemia viral (v-erb-a) oncogene homolog, avian)	0.0109526	Yes	No	No	No	No	No	No	No
7741	ZNF187	zinc finger protein 187	0.0109553	Yes	No	No	No	No	No	No	No
414	ARSD	arylsulfatase D	0.0109574	Yes	No	No	No	No	No	No	No
84186	ZCCHC7	zinc finger, CCHC domain containing 7	0.0109638	Yes	No	No	No	No	No	No	No
373509	USP50	ubiquitin specific peptidase 50	0.010992	Yes	No	No	No	No	No	No	No
9341	VAMP3	vesicle-associated membrane protein 3 (cellubrevin)	0.011076	Yes	No	No	No	No	No	No	No
84251	SGIP1	SH3-domain GRB2-like (endophilin) interacting protein 1	0.0111675	Yes	No	No	No	No	No	No	No
373	TRIM23	tripartite motif-containing 23	0.0111908	No	No	No	No	No	No	Yes	No
7088	TLE1	transducin-like enhancer of split 1 (E(sp1) homolog, Drosophila)	0.0111918	Yes	No	No	No	No	No	No	No
5205	ATP8B1	ATPase, class I, type 8B, member 1	0.0112189	Yes	No	No	No	No	No	No	No
162394	SLFN5	schlafen family member 5	0.0112556	Yes	No	No	No	No	No	No	No
114880	OSBPL6	oxysterol binding protein-like 6	0.0113735	Yes	No	No	No	No	No	No	No
9732	DOCK4	dedicator of cytokinesis 4	0.0113793	Yes	No	No	No	No	No	Yes	No
90249	UNC5A	unc-5 homolog A (C. elegans)	0.0114204	Yes	No	No	No	No	No	No	No
26524	LATS2	LATS, large tumor suppressor, homolog 2 (Drosophila)	0.0114525	Yes	No	No	No	No	No	No	No
3090	HIC1	hypermethylated in cancer 1	0.0114545	Yes	No	No	No	No	No	No	No
6811	STX5	syntaxin 5	0.0115123	No	No	No	No	No	No	Yes	No
2651	GCNT2	glucosaminyl (N-acetyl) transferase 2, I-branching enzyme (I blood group)	0.0115185	No	Yes	No	No	No	No	No	No
8689	KRT36	keratin 36	0.0115321	Yes	No	No	No	No	No	No	No
3553	IL1B	interleukin 1, beta	0.011628	Yes	No	No	No	No	No	No	No
7454	WAS	Wiskott-Aldrich syndrome (eczema-thrombocytopenia)	0.0116605	Yes	No	No	No	No	No	No	No
10488	CREB3	cAMP responsive element binding protein 3	0.0117461	No	No	No	No	No	No	Yes	No
1359	CPA3	carboxypeptidase A3 (mast cell)	0.011783	Yes	No	No	No	No	No	No	No
2768	GNA12	guanine nucleotide binding protein (G protein) alpha 12	0.0117904	Yes	No	No	No	No	No	No	No
6529	SLC6A1	solute carrier family 6 (neurotransmitter transporter, GABA), member 1	0.0118353	Yes	No	No	No	No	No	No	No

26052	DNM3	dynamins 3	0.0118392	Yes	No	No	No	No	No	No	No
10561	IFI44	interferon-induced protein 44	0.0118441	Yes	Yes	No	No	No	No	No	No
2302	FOXJ1	forkhead box J1	0.011851	Yes	No	No	No	No	No	No	No
51162	EGFL7	EGF-like-domain, multiple 7	0.011865	Yes	No	No	No	No	No	No	No
43	ACHE	acetylcholinesterase (Yt blood group)	0.0119116	No	Yes	No	No	No	No	No	No
5175	PECAM1	platelet/endothelial cell adhesion molecule (CD31 antigen)	0.0119119	Yes	No	No	No	No	No	No	No
51063	FAM26B	family with sequence similarity 26, member B	0.0119908	Yes	No	No	No	No	No	No	No
26974	ZNF285A	zinc finger protein 285A	0.0120064	Yes	No	No	No	No	No	No	No
51692	CPSF3	cleavage and polyadenylation specific factor 3, 73kDa	0.0121577	No	No	No	No	No	Yes	No	No
145781	Gcom1	GRINL1A combined protein	0.01219	Yes	No	No	No	No	No	No	No
152877	FAM53A	family with sequence similarity 53, member A	0.0122229	Yes	No	No	No	No	No	No	No
1675	CFD	complement factor D (adipsin)	0.0122813	Yes	No	No	No	No	No	No	No
573	BAG1	BCL2-associated athanogene	0.0123106	Yes	No	No	No	No	Yes	No	No
256987	SERINC5	serine incorporator 5	0.0123375	NA	No	No	No	No	Yes	No	No
2055	CLN8	ceroid-lipofuscinosis, neuronal 8 (epilepsy, progressive with mental retardation)	0.012351	Yes	No	No	No	No	No	No	No
84636	GPR174	G protein-coupled receptor 174	0.0123631	Yes	No	No	No	No	No	No	No
55605	KIF21A	kinesin family member 21A	0.0124063	Yes	No	No	No	No	No	No	No
57576	KIF17	kinesin family member 17	0.0124071	Yes	No	No	No	No	No	No	No
6453	ITSN1	intersectin 1 (SH3 domain protein)	0.0124223	Yes	No	No	No	No	No	No	No
1123	CHN1	chimerin (chimaerin) 1	0.0125143	No	No	No	No	No	Yes	No	No
64333	ARHGAP9	Rho GTPase activating protein 9	0.0126212	Yes	No	No	No	No	No	No	No
56142	PCDH6	protocadherin alpha 6	0.012647	Yes	No	No	No	No	No	No	No
5753	PTK6	PTK6 protein tyrosine kinase 6	0.0126567	Yes	No	No	No	No	No	No	No
387338	NSUN4	NOL1/NOP2/Sun domain family, member 4	0.0127992	Yes	No	No	No	No	No	No	No
257218	SHPRH	SNF2 histone linker PHD RING helicase	0.012836	Yes	No	No	No	No	No	No	No
9253	NUMBL	numb homolog (Drosophila)-like	0.0128602	Yes	No	No	No	No	No	No	No
165631	PARP15	poly (ADP-ribose) polymerase family, member 15	0.0128894	Yes	Yes	No	No	No	No	No	No
23397	NCAPH	non-SMC condensin I complex, subunit H	0.0128944	No	No	No	No	No	Yes	No	No
7738	ZNF184	zinc finger protein 184	0.0129163	No	No	No	No	No	Yes	No	No
25898	RCHY1	ring finger and CHY zinc finger domain containing 1	0.0130429	Yes	No	No	No	No	No	No	No
56287	GKN1	gastrokine 1	0.0130584	Yes	No	No	No	No	No	No	No
29883	CNOT7	CCR4-NOT transcription complex, subunit 7	0.0131213	Yes	No	No	No	No	No	No	No
283149	BCL9L	B-cell CLL/lymphoma 9-like	0.0131703	Yes	No	No	No	No	No	No	No
1827	RCAN1	regulator of calcineurin 1	0.0131876	Yes	No	No	No	No	No	No	No

7769	ZNF226	zinc finger protein 226	0.0132661	Yes	No	No	No	No	Yes	No
64098	PARVG	parvin, gamma	0.0132679	Yes	Yes	No	No	No	No	No
80789	INTS5	integrator complex subunit 5	0.0132694	No	No	No	No	No	Yes	No
284273	ZADH2	zinc binding alcohol dehydrogenase domain containing 2	0.0132707	Yes	No	No	No	No	No	No
55760	DHX32	DEAH (Asp-Glu-Ala-His) box polypeptide 32	0.0132719	Yes	Yes	No	No	No	No	No
55911	APOB48R	apolipoprotein B48 receptor	0.0132968	Yes	No	No	No	No	No	No
49854	ZNF295	zinc finger protein 295	0.0133104	Yes	Yes	No	No	No	No	No
339451	KLHL17	kelch-like 17 (Drosophila)	0.0133898	Yes	No	No	No	No	No	No
80762	NDFIP1	Nedd4 family interacting protein 1	0.0133999	Yes	No	No	No	No	No	No
4952	OCRL	oculocerebrorenal syndrome of Lowe	0.0134287	Yes	No	No	No	No	No	No
1999	ELF3	E74-like factor 3 (ets domain transcription factor, epithelial-specific)	0.0134474	Yes	No	No	No	No	No	No
50488	MINK1	missshapen-like kinase 1 (zebrafish)	0.0135154	Yes	No	No	No	No	No	No
81029	WNT5B	wingless-type MMTV integration site family, member 5B	0.0135203	Yes	No	No	No	No	No	No
3690	ITGB3	integrin, beta 3 (platelet glycoprotein IIIa, antigen CD61)	0.0135794	Yes	No	No	No	No	No	No
6203	RPS9	ribosomal protein S9	0.0136411	No	No	No	No	No	Yes	No
9037	SEMA5A	sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 5A	0.0137063	Yes	No	No	No	No	No	No
54932	FLJ20433	hypothetical protein FLJ20433	0.0137184	Yes	No	No	No	No	No	No
1911	PHC1	polyhomeotic homolog 1 (Drosophila)	0.0137551	Yes	No	No	No	No	No	No
9047	SH2D2A	SH2 domain protein 2A	0.0138305	Yes	No	No	No	No	No	No
7916	BAT2	HLA-B associated transcript 2	0.0138343	No	No	No	No	No	Yes	No
3110	MXN1	motor neuron and pancreas homeobox 1	0.0138346	No	Yes	No	No	No	No	No
170712	COX7B2	cytochrome c oxidase subunit VIIb2	0.0138933	Yes	No	No	No	No	No	No
3040	HBA2	hemoglobin, alpha 2	0.0139573	Yes	No	No	No	No	No	No
140880	CST11	cystatin 11	0.0139618	Yes	No	No	No	No	No	No
7633	ZNF79	zinc finger protein 79	0.0139784	No	No	No	No	No	Yes	No
3695	ITGB7	integrin, beta 7	0.0139899	Yes	No	No	No	No	No	No
10602	CDC42EP3	CDC42 effector protein (Rho GTPase binding) 3	0.0140659	Yes	Yes	No	No	No	No	No
25822	DNAJB5	DnaJ (Hsp40) homolog, subfamily B, member 5	0.0140659	No	No	No	No	No	Yes	No
55591	VEZT	vezatin, adherens junctions transmembrane protein	0.0140781	No	Yes	No	No	No	No	No
27131	SNX5	sorting nexin 5	0.0141265	No	No	No	No	No	Yes	No
3852	KRT5	keratin 5 (epidermolysis bullosa simplex, Dowling-Meara/Kobner/Weber-Cockayne types)	0.0141409	Yes	No	No	No	No	No	No
606495	LOC606495	hypothetical protein LOC606495	0.0141761	Yes	No	No	No	No	No	No
83592	AKR1CL2	aldo-keto reductase family 1, member C-like 2	0.0141815	Yes	No	No	No	No	No	No
3182	HNRNPAB	heterogeneous nuclear ribonucleoprotein A/B	0.0142875	No	No	No	No	No	Yes	No

9378	NRXN1	neurexin 1	0.0142921	Yes	No	No	No	No	No	No
10172	ZNF256	zinc finger protein 256	0.0143514	Yes	No	No	No	No	No	No
26037	SIPA1L1	signal-induced proliferation-associated 1 like 1	0.0143576	Yes	No	No	No	No	No	No
5724	PTAFR	platelet-activating factor receptor	0.0144027	No	No	No	No	No	Yes	No
163081	ZNF567	zinc finger protein 567	0.0144068	Yes	No	No	No	No	No	No
171024	SYNPO2	synaptopodin 2	0.0144673	Yes	No	No	No	No	No	No
6236	RRAD	Ras-related associated with diabetes	0.0145038	Yes	No	No	No	No	No	No
91107	TRIM47	tripartite motif-containing 47	0.0145082	Yes	No	No	No	No	No	No
2355	FOSL2	FOS-like antigen 2	0.0145212	Yes	No	No	No	No	No	No
5243	ABCB1	ATP-binding cassette, sub-family B (MDR/TAP), member 1	0.0145955	Yes	No	No	No	No	No	No
113691	MGC16703	tubulin, alpha pseudogene	0.0146145	Yes	No	No	No	No	No	No
25802	LMOD1	leiomodin 1 (smooth muscle)	0.0146414	Yes	No	No	No	No	No	No
26084	SGEF	Src homology 3 domain-containing guanine nucleotide exchange factor	0.0146583	Yes	No	No	No	No	No	No
147741	ZNF560	zinc finger protein 560	0.0149022	Yes	No	No	No	No	No	No
3912	LAMB1	laminin, beta 1	0.0150027	Yes	No	No	No	No	No	No
1982	EIF4G2	eukaryotic translation initiation factor 4 gamma, 2	0.0150655	No	Yes	No	No	No	Yes	No
7626	ZNF75D	zinc finger protein 75D	0.0150659	Yes	No	No	No	No	No	No
1266	CNN3	calponin 3, acidic	0.0151989	Yes	No	No	No	No	No	No
23259	DDHD2	DDHD domain containing 2	0.0152255	Yes	No	No	No	No	No	No
2891	GRIA2	glutamate receptor, ionotropic, AMPA 2	0.0152984	Yes	No	No	No	No	No	No
60625	DHX35	DEAH (Asp-Glu-Ala-His) box polypeptide 35	0.0153232	No	Yes	No	No	No	No	No
1040	CDS1	CDP-diacylglycerol synthase (phosphatidate cytidylyltransferase) 1	0.0154052	Yes	No	No	No	No	No	No
2687	GGT5	gamma-glutamyltransferase 5	0.0154722	Yes	No	No	No	No	No	No
131566	DCBLD2	discoidin, CUB and LCCL domain containing 2	0.0155446	Yes	No	No	No	No	No	No
22931	RAB18	RAB18, member RAS oncogene family	0.0156105	Yes	No	No	No	No	No	No
84651	SPINK7	serine peptidase inhibitor, Kazal type 7 (putative)	0.0156558	Yes	No	No	No	No	No	No
84255	SLC37A3	solute carrier family 37 (glycerol-3-phosphate transporter), member 3	0.0157534	Yes	No	No	No	No	No	No
9825	SPATA2	spermatogenesis associated 2	0.0157636	No	Yes	No	No	No	No	No
5565	PRKAB2	protein kinase, AMP-activated, beta 2 non-catalytic subunit	0.0158013	Yes	No	No	No	No	No	No
57801	HES4	hairy and enhancer of split 4 (Drosophila)	0.0158166	Yes	No	No	No	No	No	No
27076	LYPD3	LY6/PLAUR domain containing 3	0.0158368	Yes	No	No	No	No	No	No
834	CASP1	caspase 1, apoptosis-related cysteine peptidase (interleukin 1, beta, convertase)	0.0158743	Yes	No	No	No	No	No	No
79815	NPAL2	NIPA-like domain containing 2	0.0158959	Yes	Yes	No	No	No	No	No
23221	RHOBTB2	Rho-related BTB domain containing 2	0.0159972	Yes	No	No	No	No	No	No

10371	SEMA3A	sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3A	0.0160039	Yes	No	No	No	No	No	No
56950	SMYD2	SET and MYND domain containing 2	0.0160161	Yes	No	No	No	No	No	No
3340	NDST1	N-deacetylase/N-sulfotransferase (heparan glucosaminyl) 1	0.0160298	Yes	No	No	No	No	No	No
201798	TIGD4	tigger transposable element derived 4	0.016039	Yes	No	No	No	No	No	No
7030	TFE3	transcription factor binding to IGHM enhancer 3	0.0160411	Yes	No	No	No	No	No	No
55727	BTBD7	BTB (POZ) domain containing 7	0.0160616	Yes	No	No	No	No	Yes	No
4707	NDUFB1	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 1, 7kDa	0.0160703	No	No	No	No	No	Yes	No
2047	EPHB1	EPH receptor B1	0.0160845	Yes	No	No	No	No	No	No
168433	RNF133	ring finger protein 133	0.0161571	Yes	No	No	No	No	No	No
8614	STC2	stanniocalcin 2	0.0162422	Yes	No	No	No	No	No	No
4637	MYL6	myosin, light chain 6, alkali, smooth muscle and non-muscle	0.0162484	No	No	No	No	No	Yes	No
3098	HK1	hexokinase 1	0.0163077	Yes	No	No	No	No	No	No
24138	IFIT5	interferon-induced protein with tetratricopeptide repeats 5	0.0163094	Yes	Yes	No	No	No	No	No
9240	PNMA1	paraneoplastic antigen MA1	0.0164531	Yes	No	No	No	No	No	No
6504	SLAMF1	signaling lymphocytic activation molecule family member 1	0.0165492	Yes	No	No	No	No	No	No
283234	CCDC88B	coiled-coil domain containing 88B	0.0165583	Yes	No	No	No	No	No	No
10123	ARL4C	ADP-ribosylation factor-like 4C	0.0166539	Yes	No	No	No	No	No	No
4544	MTNR1B	melatonin receptor 1B	0.0167119	Yes	No	No	No	No	No	No
128	ADH5	alcohol dehydrogenase 5 (class III), chi polypeptide	0.016735	No	No	No	No	No	Yes	No
51341	ZBTB7A	zinc finger and BTB domain containing 7A	0.0167522	Yes	No	No	No	No	No	No
4013	LOH11CR2A	loss of heterozygosity, 11, chromosomal region 2, gene A	0.0167666	Yes	No	No	No	No	No	No
54855	FAM46C	family with sequence similarity 46, member C	0.0167672	Yes	No	No	No	No	No	No
308	ANXA5	annexin A5	0.0167946	No	No	No	No	No	Yes	No
8674	VAMP4	vesicle-associated membrane protein 4	0.0168072	Yes	No	No	No	No	No	No
57798	GATAD1	GATA zinc finger domain containing 1	0.0168738	Yes	No	No	No	No	No	No
7041	TGFB11	transforming growth factor beta 1 induced transcript 1	0.016883	Yes	No	No	No	No	No	No
140609	NEK7	NIMA (never in mitosis gene a)-related kinase 7	0.0168935	Yes	No	No	No	No	No	No
338872	C1QTNF9	C1q and tumor necrosis factor related protein 9	0.0169016	Yes	No	No	No	No	No	No
1490	CTGF	connective tissue growth factor	0.016903	Yes	No	No	No	No	No	No
57645	POGK	pogo transposable element with KRAB domain	0.0169194	Yes	No	No	No	No	No	No
115362	GBP5	guanylate binding protein 5	0.016979	Yes	No	No	No	No	No	No
84958	SYTL1	synaptotagmin-like 1	0.0171081	Yes	No	No	No	No	No	No
51130	ASB3	ankyrin repeat and SOCS box-containing 3	0.0171125	No	No	No	No	No	Yes	No
158586	ZXDB	zinc finger, X-linked, duplicated B	0.0171284	Yes	No	No	No	No	No	No

831	CAST	calpastatin	0.017145	Yes	No	No	No	No	No	No	No
55089	SLC38A4	solute carrier family 38, member 4	0.0171826	Yes	No	No	No	No	No	No	No
54659	UGT1A3	UDP glucuronosyltransferase 1 family, polypeptide A3	0.0172149	Yes	No	No	No	No	No	No	No
91147	TMEM67	transmembrane protein 67	0.0172164	Yes	No	No	No	No	No	No	No
25923	ATL3	atlastin 3	0.0172306	Yes	No	No	No	No	No	No	No
23547	LILRA4	leukocyte immunoglobulin-like receptor, subfamily A (with TM domain), member 4	0.017295	Yes	No	No	No	No	No	No	No
9725	TMEM63A	transmembrane protein 63A	0.0174226	Yes	No	No	No	No	No	No	No
10499	NCOA2	nuclear receptor coactivator 2	0.0175201	Yes	No	No	No	No	No	No	No
51733	UPB1	ureidopropionase, beta	0.0176355	Yes	No	No	No	No	No	No	No
55072	RNF31	ring finger protein 31	0.017646	Yes	No	No	No	No	No	No	No
55153	SDAD1	SDA1 domain containing 1	0.017684	Yes	No	No	No	No	No	No	No
54766	BTG4	B-cell translocation gene 4	0.0178399	Yes	No	No	No	No	No	No	No
348807	CDC37	coiled-coil domain containing 37	0.0179525	Yes	No	No	No	No	No	No	No
79841	AGBL2	ATP/GTP binding protein-like 2	0.0179686	Yes	No	No	No	No	No	No	No
79066	METT10D	methyltransferase 10 domain containing	0.0180098	Yes	Yes	No	No	No	No	No	No
30818	KCNIP3	Kv channel interacting protein 3, calsennin	0.0180418	Yes	No	No	No	No	No	No	No
847	CAT	catalase	0.0180838	Yes	No	No	No	No	No	No	No
5698	PSMB9	proteasome (prosome, macropain) subunit, beta type, 9 (large multifunctional peptidase 2)	0.0180926	No	No	No	No	No	Yes	No	No
162282	ANKFN1	ankyrin-repeat and fibronectin type III domain containing 1	0.0182194	Yes	No	No	No	No	No	No	No
51348	KLRF1	killer cell lectin-like receptor subfamily F, member 1	0.018355	Yes	No	No	No	No	No	No	No
3738	KCNA3	potassium voltage-gated channel, shaker-related subfamily, member 3	0.0183622	Yes	No	No	No	No	No	No	No
151636	DTX3L	deltex 3-like (Drosophila)	0.0183653	Yes	Yes	No	No	No	No	No	No
132141	IQCF1	IQ motif containing F1	0.0184784	Yes	No	No	No	No	No	No	No
3270	HRC	histidine rich calcium binding protein	0.0185575	Yes	No	No	No	No	No	No	No
9780	FAM38A	family with sequence similarity 38, member A	0.0187273	Yes	No	No	No	No	No	No	No
79828	METTL8	methyltransferase like 8	0.0187833	Yes	Yes	No	No	No	No	No	No
51264	MRPL27	mitochondrial ribosomal protein L27	0.0188488	No	No	No	No	No	Yes	No	No
55692	LUC7L	LUC7-like (S. cerevisiae)	0.0189089	Yes	No	No	No	No	No	No	No
78988	MRP63	mitochondrial ribosomal protein 63	0.0191007	No	No	No	No	No	Yes	No	No
2215	FCGR3B	Fc fragment of IgG, low affinity IIb, receptor (CD16b)	0.0191008	No	Yes	No	No	No	No	No	No
55243	KIRREL	kin of IRRE like (Drosophila)	0.0191401	Yes	No	No	No	No	No	No	No
85457	KIAA1737	KIAA1737	0.0191754	Yes	No	No	No	No	No	No	No
23378	KIAA0409	KIAA0409	0.0192332	Yes	No	No	No	No	Yes	No	No
55734	ZFP64	zinc finger protein 64 homolog (mouse)	0.0192389	Yes	No	No	No	No	No	No	No

6187	RPS2	ribosomal protein S2	0.0192634	Yes	No	No	No	No	No	No	No
11137	PWP1	PWP1 homolog (S. cerevisiae)	0.019372	No	No	No	No	No	Yes	No	No
51170	HSD17B11	hydroxysteroid (17-beta) dehydrogenase 11	0.0194014	Yes	No	No	No	No	No	No	No
353189	SLCO4C1	solute carrier organic anion transporter family, member 4C1	0.0194331	Yes	Yes	No	No	No	No	No	No
4323	MMP14	matrix metalloproteinase 14 (membrane-inserted)	0.0194711	Yes	No	No	No	No	No	No	No
9136	RRP9	ribosomal RNA processing 9, small subunit (SSU) processome component, homolog (yeast)	0.019472	Yes	No	No	No	No	No	No	No
18	ABAT	4-aminobutyrate aminotransferase	0.0195136	Yes	Yes	No	No	No	Yes	Yes	Yes
2315	MLANA	melan-A	0.0197031	Yes	No	No	No	No	No	No	No
389	RHOC	ras homolog gene family, member C	0.0197126	Yes	No	No	No	No	No	No	No
26022	TMEM98	transmembrane protein 98	0.0197383	Yes	No	No	No	No	No	No	No
340547	VSIG1	V-set and immunoglobulin domain containing 1	0.0197416	Yes	No	No	No	No	No	No	No
64094	SMOC2	SPARC related modular calcium binding 2	0.0197482	Yes	No	No	No	No	No	No	No
27030	MLH3	mutL homolog 3 (E. coli)	0.0198227	Yes	No	No	No	No	No	No	No
3174	HNF4G	hepatocyte nuclear factor 4, gamma	0.0198588	Yes	No	No	No	No	No	No	No
7469	WHSC2	Wolf-Hirschhorn syndrome candidate 2	0.0198713	Yes	No	No	No	No	No	No	No
5584	PRKCI	protein kinase C, iota	0.0198859	No	Yes	No	No	No	No	No	No
3903	LAIR1	leukocyte-associated immunoglobulin-like receptor 1	0.019915	Yes	No	No	No	No	No	No	No
57822	GRHL3	grainyhead-like 3 (Drosophila)	0.0199352	Yes	No	No	No	No	No	No	No
54549	SDK2	sidekick homolog 2 (chicken)	0.0199458	Yes	No	No	No	No	No	No	No
5272	SERPINB9	serpin peptidase inhibitor, clade B (ovalbumin), member 9	0.0199564	Yes	No	No	No	No	No	No	No
55343	SLC35C1	solute carrier family 35, member C1	0.0199639	Yes	No	No	No	No	No	No	No
27106	ARRDC2	arrestin domain containing 2	0.0202532	Yes	No	No	No	No	No	No	No
80055	PGAP1	post-GPI attachment to proteins 1	0.0204162	Yes	No	No	No	No	Yes	No	No
5197	PF4V1	platelet factor 4 variant 1	0.0204377	Yes	No	No	No	No	No	No	No
54980	C2orf42	chromosome 2 open reading frame 42	0.0204472	No	No	No	No	No	Yes	No	No
7205	TRIP6	thyroid hormone receptor interactor 6	0.0204919	Yes	No	No	No	No	No	No	No
129303	TMEM150	transmembrane protein 150	0.0205041	Yes	No	No	No	No	No	No	No
3030	HADHA	hydroxyacyl-Coenzyme A dehydrogenase/3-ketoacyl-Coenzyme A thiolase/enoyl-Coenzyme A hydratase (trifunctional protein), alpha subunit	0.0206441	Yes	No	No	No	No	No	No	No
1176	AP3S1	adaptor-related protein complex 3, sigma 1 subunit	0.0206543	No	No	No	No	No	Yes	No	No
160	AP2A1	adaptor-related protein complex 2, alpha 1 subunit	0.0206978	Yes	No	No	No	No	No	No	No
6584	SLC22A5	solute carrier family 22 (organic cation/carnitine transporter), member 5	0.0207116	Yes	No	No	No	No	No	No	No
143903	LAYN	laylin	0.0207446	Yes	No	No	No	No	No	No	No
4773	NFATC2	nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 2	0.0207928	No	Yes	No	No	No	No	No	No
23175	LPIN1	lipin 1	0.0207999	Yes	No	No	No	No	No	No	No

80149	ZC3H12A	zinc finger CCCH-type containing 12A	0.0208972	Yes	No	No	No	No	No	No
79087	ALG12	asparagine-linked glycosylation 12 homolog (S. cerevisiae, alpha-1,6-mannosyltransferase)	0.020944	Yes	No	No	No	No	No	No
5359	PLSCR1	phospholipid scramblase 1	0.0209992	Yes	No	No	No	No	Yes	No
773	CACNA1A	calcium channel, voltage-dependent, P/Q type, alpha 1A subunit	0.0211193	Yes	No	No	No	No	No	No
63893	UBE2O	ubiquitin-conjugating enzyme E2O	0.0211554	No	Yes	No	No	No	No	No
64757	MOSC1	MOCO sulphurase C-terminal domain containing 1	0.0213076	Yes	No	No	No	No	No	No
57714	KIAA1618	KIAA1618	0.0213199	Yes	No	No	No	No	No	No
64114	TMBIM1	transmembrane BAX inhibitor motif containing 1	0.0213509	Yes	No	No	No	No	No	No
11231	SEC63	SEC63 homolog (S. cerevisiae)	0.0214783	Yes	No	No	No	No	No	No
9957	HS3ST1	heparan sulfate (glucosamine) 3-O-sulfotransferase 1	0.021555	Yes	No	No	No	No	No	No
5009	OTC	ornithine carbamoyltransferase	0.0215906	Yes	No	No	No	No	No	No
2621	GAS6	growth arrest-specific 6	0.0216744	Yes	No	No	No	No	No	No
80833	APOL3	apolipoprotein L, 3	0.0217095	Yes	No	No	No	No	No	No
11118	BTNSA2	butyrophilin, subfamily 3, member A2	0.0217602	Yes	No	No	No	No	No	No
4046	LSP1	lymphocyte-specific protein 1	0.0218517	Yes	No	No	No	No	No	No
5252	PHF1	PHD finger protein 1	0.0218825	Yes	No	No	No	No	No	No
27332	ZNF638	zinc finger protein 638	0.0218885	Yes	No	No	No	No	No	No
4543	MTNR1A	melatonin receptor 1A	0.0219187	Yes	No	No	No	No	No	No
90864	SPSB3	splA/ryanodine receptor domain and SOCS box containing 3	0.0220925	Yes	No	No	No	No	No	No
28231	SLCO4A1	solute carrier organic anion transporter family, member 4A1	0.0221207	Yes	No	No	No	No	No	No
6916	TBXAS1	thromboxane A synthase 1 (platelet, cytochrome P450, family 5, subfamily A)	0.0221421	No	No	No	No	No	Yes	No
10318	TNIP1	TNFAIP3 interacting protein 1	0.0221721	Yes	No	No	No	No	No	No
57613	KIAA1467	KIAA1467	0.0221977	Yes	No	No	No	No	No	No
51084	CRYL1	crystallin, lambda 1	0.0222863	Yes	No	No	No	No	No	No
51276	ZNF571	zinc finger protein 571	0.0223281	Yes	No	No	No	No	No	No
80198	MUS81	MUS81 endonuclease homolog (S. cerevisiae)	0.0223437	Yes	No	No	No	No	Yes	No
57381	RHOJ	ras homolog gene family, member J	0.022344	Yes	No	No	No	No	No	No
10673	TNFSF13B	tumor necrosis factor (ligand) superfamily, member 13b	0.022411	Yes	No	No	No	No	No	No
57019	CIAPIN1	cytokine induced apoptosis inhibitor 1	0.0224114	Yes	No	No	No	No	No	No
23564	DDAH2	dimethylarginine dimethylaminohydrolase 2	0.0224858	Yes	No	No	No	No	No	No
221178	SPATA13	spermatogenesis associated 13	0.022591	Yes	No	No	No	No	No	No
10482	NXF1	nuclear RNA export factor 1	0.0225913	No	No	No	No	No	Yes	Yes
285761	DCBLD1	discoidin, CUB and LCCL domain containing 1	0.0226361	Yes	No	No	No	No	No	No
8496	PPF1BP1	PTPRF interacting protein, binding protein 1 (Iiprin beta 1)	0.0226681	Yes	No	No	No	No	No	No

2040	STOM	stomatin	0.0227089	Yes	No	No	No	No	No	No	No
5325	PLACL1	pleiomorphic adenoma gene-like 1	0.0227118	Yes	No	No	No	No	No	No	No
51454	GULP1	GULP, engulfment adaptor PTB domain containing 1	0.0227224	Yes	No	No	No	No	No	No	No
116143	WDR92	WD repeat domain 92	0.0228007	No	No	No	No	No	Yes	No	No
3239	HOXD13	homeobox D13	0.0229077	Yes	No	No	No	No	No	No	No
257358	LOC257358	hypothetical protein LOC257358	0.0230462	NA*	Yes	No	No	No	No	No	No
55275	VPS53	vacuolar protein sorting 53 homolog (S. cerevisiae)	0.0230774	Yes	No	No	No	No	No	No	No
11120	BTN2A1	butyrophilin, subfamily 2, member A1	0.0232232	Yes	No	No	No	No	Yes	Yes	Yes
8526	DGKE	diacylglycerol kinase, epsilon 64kDa	0.023245	Yes	No	No	No	No	No	No	No
780	DDR1	discoidin domain receptor tyrosine kinase 1	0.0232827	Yes	No	No	No	No	No	No	No
79955	PDZD7	PDZ domain containing 7	0.0233574	No	No	No	No	No	Yes	No	No
383	ARG1	arginase, liver	0.023397	Yes	No	No	No	No	No	No	No
3600	IL15	interleukin 15	0.0235165	Yes	No	No	No	No	No	No	No
84952	CGNL1	cingulin-like 1	0.0235381	Yes	No	No	No	No	No	No	No
79931	TNIP3	TNFAIP3 interacting protein 3	0.0235715	Yes	No	No	No	No	No	No	No
54970	TTC12	tetratricopeptide repeat domain 12	0.0235929	Yes	No	No	No	No	No	No	No
81502	HMI3	histocompatibility (minor) 13	0.0236722	Yes	No	No	No	No	No	No	No
9975	NR1D2	nuclear receptor subfamily 1, group D, member 2	0.0238253	Yes	No	No	No	No	No	No	No
1051	CEBPB	CCAAT/enhancer binding protein (C/EBP), beta	0.0238471	Yes	No	No	No	No	No	No	No
79191	IRX3	iroquois homeobox 3	0.023883	Yes	No	No	No	No	No	No	No
3977	LIFR	leukemia inhibitory factor receptor alpha	0.023979	Yes	No	No	No	No	No	No	No
2122	EVI1	ecotropic viral integration site 1	0.0241567	Yes	No	No	No	No	No	No	No
64065	PERP	PERP, TP53 apoptosis effector	0.0241902	Yes	No	No	No	No	No	No	No
266747	RGL4	ral guanine nucleotide dissociation stimulator-like 4	0.0242559	Yes	No	No	No	No	No	No	No
22846	VASH1	vasohibin 1	0.0244688	Yes	No	No	No	No	No	No	No
283742	FAM98B	family with sequence similarity 98, member B	0.0245325	No	No	No	No	No	Yes	No	No
3141	HLCS	holocarboxylase synthetase (biotin-(propionyl)-Coenzyme A-carboxylase (ATP-hydrolysing)) ligase	0.0246197	Yes	No	No	No	No	No	No	No
56253	CRTAM	cytotoxic and regulatory T cell molecule	0.024628	Yes	No	No	No	No	No	No	No
133396	IL31RA	interleukin 31 receptor A	0.024694	Yes	No	No	No	No	No	No	No
51076	CUTC	cutC copper transporter homolog (E. coli)	0.0247283	No	No	No	No	No	Yes	No	No
8609	KLF7	Kruppel-like factor 7 (ubiquitous)	0.0247555	Yes	No	No	No	No	No	No	No
64860	ARMCX5	armadillo repeat containing, X-linked 5	0.0249908	Yes	No	No	No	No	No	No	No
55129	TMEM16K	transmembrane protein 16K	0.0250694	Yes	No	No	No	No	No	No	No
5348	FXYD1	FXYD domain containing ion transport regulator 1 (phospholemman)	0.025077	Yes	No	No	No	No	No	No	No

7766	ZNF223	zinc finger protein 223	0.0254227	Yes	No	No	No	No	No	Yes	No
56203	LMOD3	leiomodin 3 (fetal)	0.0254428	Yes	No	No	No	No	No	No	No
10998	SLC27A5	solute carrier family 27 (fatty acid transporter), member 5	0.0254833	Yes	No	No	No	No	No	No	No
90589	ZNF625	zinc finger protein 625	0.0255005	No	Yes	No	No	No	No	No	No
7791	ZYX	zyxin	0.0255737	Yes	No	No	No	No	No	No	No
208	AKT2	v-akt murine thymoma viral oncogene homolog 2	0.0256329	Yes	No	No	No	No	No	No	No
5317	PKP1	plakophilin 1 (ectodermal dysplasia/skin fragility syndrome)	0.0256731	Yes	No	No	No	No	No	No	No
10312	TCIRG1	T-cell, immune regulator 1, ATPase, H+ transporting, lysosomal V0 subunit A3	0.0257618	Yes	No	No	No	No	No	No	No
602	BCL3	B-cell CLL/lymphoma 3	0.0257843	Yes	No	No	No	No	No	No	No
65982	ZSCAN18	zinc finger and SCAN domain containing 18	0.025816	Yes	No	No	No	No	No	No	No
5129	PCTK3	PCTAIRE protein kinase 3	0.0258269	Yes	No	No	No	No	No	No	No
65999	LRRC61	leucine rich repeat containing 61	0.0258721	No	No	No	No	No	No	Yes	No
54558	SPATA6	spermatogenesis associated 6	0.0259346	Yes	No	No	No	No	No	No	No
79792	GSDMDC1	gasdermin domain containing 1	0.0260365	Yes	No	No	No	No	No	No	No
51	ACOX1	acyl-Coenzyme A oxidase 1, palmitoyl	0.0261704	No	No	No	No	No	No	Yes	No
3652	IPP	intracisternal A particle-promoted polypeptide	0.0262776	Yes	No	No	No	No	No	No	No
114907	FBXO32	F-box protein 32	0.026329	Yes	No	No	No	No	No	No	No
1588	CYP19A1	cytochrome P450, family 19, subfamily A, polypeptide 1	0.0263508	Yes	No	No	No	No	No	No	No
581	BAX	BCL2-associated X protein	0.026444	Yes	No	No	No	No	No	Yes	No
220001	VWCE	von Willebrand factor C and EGF domains	0.0266595	Yes	No	No	No	No	No	No	No
27034	ACAD8	acyl-Coenzyme A dehydrogenase family, member 8	0.0267877	Yes	No	No	No	No	No	No	No
4943	TBC1D25	TBC1 domain family, member 25	0.0269495	Yes	No	No	No	No	No	No	No
6646	SOAT1	sterol O-acyltransferase (acyl-Coenzyme A: cholesterol acyltransferase) 1	0.0270502	Yes	No	No	No	No	No	No	No
83888	FGFBP2	fibroblast growth factor binding protein 2	0.0271206	Yes	No	No	No	No	No	No	No
8502	PKP4	plakophilin 4	0.0271426	Yes	No	No	No	No	No	No	No
5954	RCN1	reticulocalbin 1, EF-hand calcium binding domain	0.0271603	Yes	No	No	No	No	No	No	No
2905	GRIN2C	glutamate receptor, ionotropic, N-methyl D-aspartate 2C	0.0271656	Yes	No	No	No	No	No	No	No
57647	DHX37	DEAH (Asp-Glu-Ala-His) box polypeptide 37	0.0271809	Yes	No	No	No	No	No	No	No
54658	UGT1A1	UDP glucuronosyltransferase 1 family, polypeptide A1	0.0272963	Yes	No	No	No	No	No	No	No
858	CAV2	caveolin 2	0.0273073	Yes	No	No	No	No	No	No	No
3084	NRG1	neuregulin 1	0.0273281	Yes	No	No	No	No	No	No	No
132789	GNPDA2	glucosamine-6-phosphate deaminase 2	0.0273392	Yes	No	No	No	No	No	No	No
223117	SEMA3D	sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3D	0.0274335	Yes	No	No	No	No	No	No	No
10039	PARP3	poly (ADP-ribose) polymerase family, member 3	0.0275276	Yes	No	No	No	No	No	Yes	No

59307	SIGIRR	single immunoglobulin and toll-interleukin 1 receptor (TIR) domain	0.027642	Yes	No	No	No	No	No	No	No
5076	PAX2	paired box 2	0.0277798	Yes	No	No	No	No	No	No	No
771	CA12	carbonic anhydrase XII	0.0277904	Yes	No	No	No	No	No	No	No
55437	ALS2CR2	amyotrophic lateral sclerosis 2 (juvenile) chromosome region, candidate 2	0.0278204	Yes	No	No	No	No	No	No	No
5899	RALB	v-ral simian leukemia viral oncogene homolog B (ras related; GTP binding protein)	0.0278213	Yes	Yes	No	No	No	No	No	No
212	ALAS2	aminolevulinic acid, delta-, synthase 2	0.0278279	Yes	No	No	No	No	No	No	No
54662	TBC1D13	TBC1 domain family, member 13	0.0278737	Yes	No	No	No	No	No	No	No
83716	CRISPLD2	cysteine-rich secretory protein LCCL domain containing 2	0.02788	Yes	No	No	No	No	No	No	No
699	BUB1	BUB1 budding uninhibited by benzimidazoles 1 homolog (yeast)	0.0278801	No	No	No	No	No	No	Yes	No
8454	CUL1	culin 1	0.0279803	Yes	No	No	No	No	No	No	No
25890	ABI3BP	ABI gene family, member 3 (NESH) binding protein	0.0280188	Yes	No	No	No	No	No	No	No
4224	MEP1A	mepirin A, alpha (PABA peptide hydrolase)	0.0280633	Yes	No	No	No	No	No	No	No
10124	ARL4A	ADP-ribosylation factor-like 4A	0.0282002	Yes	No	No	No	No	No	No	No
51422	PRKAG2	protein kinase, AMP-activated, gamma 2 non-catalytic subunit	0.028227	Yes	Yes	No	No	No	No	No	No
10493	VAT1	vesicle amine transport protein 1 homolog (T. californica)	0.0283861	Yes	No	No	No	No	No	No	No
8643	PTCH2	patched homolog 2 (Drosophila)	0.0285258	Yes	No	No	No	No	No	No	No
9946	CRYZL1	crystallin, zeta (quinone reductase)-like 1	0.0286034	Yes	No	No	No	No	No	No	No
83657	DYNLRB2	dynein, light chain, roadblock-type 2	0.0286703	Yes	No	No	No	No	No	No	No
53917	RAB24	RAB24, member RAS oncogene family	0.0287404	Yes	No	No	No	No	No	Yes	No
65264	UBE2Z	ubiquitin-conjugating enzyme E2Z	0.0288257	Yes	No	No	No	No	No	No	No
129450	C2orf60	chromosome 2 open reading frame 60	0.0288306	Yes	No	No	No	No	No	No	No
89795	NAV3	neuron navigator 3	0.0289117	Yes	No	No	No	No	No	No	No
10879	SMR3B	submaxillary gland androgen regulated protein 3B	0.0290417	Yes	No	No	No	No	No	No	No
23386	NUDCD3	NudC domain containing 3	0.0292033	No	No	No	No	No	No	Yes	No
1282	COL4A1	collagen, type IV, alpha 1	0.029234	Yes	No	No	No	No	No	No	No
3795	KHK	ketohexokinase (fructokinase)	0.0292376	Yes	No	No	No	No	No	No	No
78990	OTUB2	OTU domain, ubiquitin aldehyde binding 2	0.0292614	Yes	No	No	No	No	No	No	No
56138	PCDHA11	protocadherin alpha 11	0.0293537	Yes	No	No	No	No	No	No	No
4833	NME4	non-metastatic cells 4, protein expressed in	0.0293579	Yes	No	No	No	No	No	No	No
9057	SLC7A6	solute carrier family 7 (cationic amino acid transporter, y+ system), member 6	0.0294107	Yes	No	No	No	No	No	No	No
56137	PCDHA12	protocadherin alpha 12	0.029472	Yes	No	No	No	No	No	No	No
64344	HIF3A	hypoxia inducible factor 3, alpha subunit	0.0295488	Yes	No	No	No	No	No	No	No
9478	CABP1	calcium binding protein 1	0.0295792	Yes	No	No	No	No	No	No	No
2840	GPR17	G protein-coupled receptor 17	0.0298383	Yes	No	No	No	No	No	No	No

5525	PPP2R5A	protein phosphatase 2, regulatory subunit B, alpha isoform	0.0301365	Yes	No	No	No	No	No	No	No
54751	FBLIM1	filamin binding LIM protein 1	0.0302134	Yes	No	No	No	No	No	No	No
151254	ALS2CR11	amyotrophic lateral sclerosis 2 (juvenile) chromosome region, candidate 11	0.0304027	Yes	No	No	No	No	No	No	No
9021	SOCS3	suppressor of cytokine signaling 3	0.0304489	Yes	No	No	No	No	No	Yes	No
5008	OSM	oncostatin M	0.0304902	No	No	No	No	No	No	Yes	No
27101	CACYBP	calyculin binding protein	0.0306699	No	No	No	No	No	No	Yes	No
54845	RBM35A	RNA binding motif protein 35A	0.0306802	Yes	No	No	No	No	No	No	No
735	C9	complement component 9	0.0308693	Yes	No	No	No	No	No	No	No
30848	CTAG2	cancer/testis antigen 2	0.0309629	Yes	No	No	No	No	No	No	No
324	APC	adenomatous polyposis coli	0.0309771	Yes	No	No	No	No	No	No	No
56751	BARHL1	BarH-like homeobox 1	0.0310333	Yes	No	No	No	No	No	No	No
5337	PLD1	phospholipase D1, phosphatidylcholine-specific	0.0311493	Yes	No	No	No	No	No	No	No
6125	RPL5	ribosomal protein L5	0.0312449	Yes	No	No	No	No	No	Yes	No
55501	CHST12	carbohydrate (chondroitin 4) sulfotransferase 12	0.0312608	Yes	No	No	No	No	No	No	No
259197	NCR3	natural cytotoxicity triggering receptor 3	0.0313056	Yes	No	No	No	No	No	No	No
24139	EML2	echinoderm microtubule associated protein like 2	0.0313289	Yes	No	No	No	No	No	No	No
57513	CASKIN2	CASK interacting protein 2	0.0314492	Yes	No	No	No	No	No	No	No
51651	PTRH2	peptidyl-tRNA hydrolase 2	0.0314687	No	No	No	No	No	No	Yes	No
26152	ZNF337	zinc finger protein 337	0.0314799	Yes	No	No	No	No	No	No	No
2212	FCGR2A	Fc fragment of IgG, low affinity IIa, receptor (CD32)	0.0314825	Yes	No	No	No	No	No	No	No
245802	MS4A6E	membrane-spanning 4-domains, subfamily A, member 6E	0.0315853	Yes	No	No	No	No	No	No	No
26298	EHF	ets homologous factor	0.0316316	Yes	No	No	No	No	No	No	No
255631	COL24A1	collagen, type XXIV, alpha 1	0.0318276	Yes	No	No	No	No	No	No	No
5139	PDE3A	phosphodiesterase 3A, cGMP-inhibited	0.0319297	Yes	No	No	No	No	No	No	No
79748	LMAN1L	lectin, mannose-binding, 1 like	0.0319519	Yes	No	No	No	No	No	No	No
33	ACADL	acyl-Coenzyme A dehydrogenase, long chain	0.0319554	Yes	No	No	No	No	No	No	No
10855	HPSE	heparanase	0.0320146	Yes	Yes	No	No	No	No	No	No
51368	TEX264	testis expressed 264	0.0320925	Yes	No	No	No	No	No	No	No
9698	PUM1	pumilio homolog 1 (Drosophila)	0.0325228	No	No	No	No	No	No	Yes	Yes
10195	ALG3	asparagine-linked glycosylation 3 homolog (S. cerevisiae, alpha-1,3-mannosyltransferase)	0.0325758	Yes	No	No	No	No	No	Yes	No
837	CASP4	caspase 4, apoptosis-related cysteine peptidase	0.0326123	Yes	No	No	No	No	No	No	No
79719	FLJ11506	hypothetical protein FLJ11506	0.0326296	Yes	No	No	No	No	No	No	No
23550	PSD4	pleckstrin and Sec7 domain containing 4	0.0327952	Yes	No	No	No	No	No	Yes	Yes
2529	FUT7	fucosyltransferase 7 (alpha (1,3) fucosyltransferase)	0.0328991	Yes	No	No	No	No	No	Yes	Yes

84733	CBX2	chromobox homolog 2 (Pc class homolog, Drosophila)	0.0329106	No	No	No	No	No	No	Yes	No
55647	RAB20	RAB20, member RAS oncogene family	0.032936	Yes	No	No	No	No	No	No	No
151790	WDR49	WD repeat domain 49	0.032958	Yes	No	No	No	No	No	No	No
4015	LOX	lysyl oxidase	0.033026	Yes	No	No	No	No	No	No	No
3039	HBA1	hemoglobin, alpha 1	0.0331877	Yes	No	No	No	No	No	No	No
5592	PRKG1	protein kinase, cGMP-dependent, type I	0.0332482	Yes	No	No	No	No	No	No	No
81031	SLC2A10	solute carrier family 2 (facilitated glucose transporter), member 10	0.0332836	Yes	No	No	No	No	No	No	No
6137	RPL13	ribosomal protein L13	0.0332842	Yes	No	No	No	No	No	No	No
9045	RPL14	ribosomal protein L14	0.0333346	No	No	No	No	No	No	Yes	No
80325	ABTB1	ankyrin repeat and BTB (POZ) domain containing 1	0.0334318	Yes	No	No	No	No	No	No	No
51652	VPS24	vacuolar protein sorting 24 homolog (S. cerevisiae)	0.0335021	Yes	No	No	No	No	No	No	No
9729	KIAA0408	KIAA0408	0.0335101	Yes	No	No	No	No	No	No	No
4047	LSS	lanosterol synthase (2,3-oxidosqualene-lanosterol cyclase)	0.0337077	Yes	No	No	No	No	No	No	No
152815	THAP6	THAP domain containing 6	0.0338477	Yes	No	No	No	No	No	No	No
7572	ZNF24	zinc finger protein 24	0.0339108	Yes	No	No	No	No	No	No	No
132014	IL17RE	interleukin 17 receptor E	0.0339502	Yes	No	No	No	No	No	No	No
4926	NUMA1	nuclear mitotic apparatus protein 1	0.0340371	Yes	No	No	No	No	No	No	No
161291	TMEM30B	transmembrane protein 30B	0.0341747	Yes	No	No	No	No	No	No	No
54461	FBXW5	F-box and WD repeat domain containing 5	0.0342968	No	No	No	No	No	No	Yes	No
57573	ZNF471	zinc finger protein 471	0.0343355	Yes	No	No	No	No	No	No	No
79716	NPEPL1	aminopeptidase-like 1	0.0343375	Yes	No	No	No	No	No	No	No
8559	PRPF18	PRP18 pre-mRNA processing factor 18 homolog (S. cerevisiae)	0.0344328	No	No	No	No	No	No	Yes	No
50839	TAS2R10	taste receptor, type 2, member 10	0.0345006	Yes	No	No	No	No	No	No	No
4824	NKX3-1	NK3 homeobox 1	0.034618	Yes	No	No	No	No	No	No	No
9249	DHRS3	dehydrogenase/reductase (SDR family) member 3	0.0347167	Yes	No	No	No	No	No	No	No
3985	LIMK2	LIM domain kinase 2	0.0348001	No	Yes	No	No	No	No	No	No
121512	FGD4	FYVE, RhoGEF and PH domain containing 4	0.0350186	Yes	Yes	No	No	No	No	No	No
202559	KHDRBS2	KH domain containing, RNA binding, signal transduction associated 2	0.0350461	Yes	No	No	No	No	No	No	No
5917	RARS	arginyl-tRNA synthetase	0.0351189	Yes	No	No	No	No	No	No	No
9498	SLC4A8	solute carrier family 4, sodium bicarbonate cotransporter, member 8	0.0351598	No	Yes	No	No	No	No	No	No
923	CD6	CD6 molecule	0.0351725	Yes	No	No	No	No	No	No	No
55238	SLC38A7	solute carrier family 38, member 7	0.0352057	Yes	No	No	No	No	No	No	No
7802	DNALI1	dynein, axonemal, light intermediate chain 1	0.0353024	Yes	No	No	No	No	No	No	No
7991	TUSC3	tumor suppressor candidate 3	0.0353276	Yes	No	No	No	No	No	No	No

6282	S100A11	S100 calcium binding protein A11	0.0355147	Yes	No	No	No	No	No	No	No
5141	PDE4A	phosphodiesterase 4A, cAMP-specific (phosphodiesterase E2 dunce homolog, Drosophila)	0.0356478	Yes	No	No	No	No	No	No	No
23682	RAB38	RAB38, member RAS oncogene family	0.0356598	Yes	No	No	No	No	No	No	No
3162	HMOX1	heme oxygenase (decycling) 1	0.0356789	Yes	No	No	No	No	No	No	No
1576	CYP3A4	cytochrome P450, family 3, subfamily A, polypeptide 4	0.0356952	Yes	No	No	No	No	No	No	No
7450	VWF	von Willebrand factor	0.0357754	Yes	No	No	No	No	No	No	No
150383	LOC150383	similar to RIKEN cDNA 2210021.J22	0.0357787	No	Yes	No	No	No	No	No	No
10589	DRAP1	DR1-associated protein 1 (negative cofactor 2 alpha)	0.0358602	Yes	No	No	No	No	No	No	No
5130	PCYT1A	phosphate cytidylyltransferase 1, choline, alpha	0.0359021	Yes	No	No	No	No	No	No	No
6249	CLIP1	CAP-GLY domain containing linker protein 1	0.0359529	Yes	No	No	No	No	Yes	No	No
23381	SMG5	Smg-5 homolog, nonsense mediated mRNA decay factor (C. elegans)	0.0360553	No	No	No	No	No	Yes	No	No
25817	FAM19A5	family with sequence similarity 19 (chemokine (C-C motif)-like), member A5	0.0360893	Yes	No	No	No	No	No	No	No
4494	MT1F	metallothionein 1F	0.0366448	Yes	No	No	No	No	No	No	No
29914	UBIAD1	UbiA prenyltransferase domain containing 1	0.0366473	Yes	No	No	No	No	No	No	No
91734	ID2	isopentenyl-diphosphate delta isomerase 2	0.0367367	Yes	No	No	No	No	No	No	No
25806	VAX2	ventral anterior homeobox 2	0.0367517	Yes	No	No	No	No	No	No	No
283254	C11orf77	chromosome 11 open reading frame 77	0.0367888	No	No	No	No	No	Yes	No	No
11185	INMT	indolethylamine N-methyltransferase	0.0370854	Yes	No	No	No	No	No	No	No
6892	TAPBP	TAP binding protein (tapasin)	0.037193	Yes	No	No	No	No	No	No	No
4501	MT1X	metallothionein 1X	0.0373215	Yes	Yes	No	No	No	No	No	No
84449	ZNF333	zinc finger protein 333	0.0375763	Yes	No	No	No	No	No	No	No
7737	RNF113A	ring finger protein 113A	0.0375812	No	No	No	No	No	Yes	Yes	No
10025	MED16	mediator complex subunit 16	0.0376257	Yes	No	No	No	No	Yes	No	No
1026	CDKN1A	cyclin-dependent kinase inhibitor 1A (p21, Cip1)	0.0377106	Yes	No	No	No	No	No	No	No
222255	ATXN7L1	ataxin 7-like 1	0.0378013	Yes	No	No	No	No	No	No	No
64763	ZNF574	zinc finger protein 574	0.0379412	No	Yes	No	No	No	No	No	No
10253	SPRY2	sprouty homolog 2 (Drosophila)	0.0380377	Yes	No	No	No	No	No	No	No
404037	HAPLN4	hyaluronan and proteoglycan link protein 4	0.038157	Yes	No	No	No	No	No	No	No
10565	ARFGEF1	ADP-ribosylation factor guanine nucleotide-exchange factor 1 (brefeldin A-inhibited)	0.0383615	No	No	No	No	No	Yes	No	No
1742	DLG4	discs, large homolog 4 (Drosophila)	0.0384291	No	No	No	No	No	Yes	No	No
58524	DMRT3	doublesex and mab-3 related transcription factor 3	0.0387152	Yes	No	No	No	No	No	No	No
9423	NTN1	netrin 1	0.0387177	Yes	No	No	No	No	No	No	No
257397	MAP3K7IP3	mitogen-activated protein kinase kinase kinase 7 interacting protein 3	0.0387479	Yes	No	No	No	No	No	No	No
6942	TCF20	transcription factor 20 (AR1)	0.0387542	Yes	No	No	No	No	No	No	No

3848	KRT1	keratin 1 (epidermolytic hyperkeratosis)	0.0388123	Yes	No	No	No	No	No	No	No
1901	S1PR1	sphingosine-1-phosphate receptor 1	0.0388655	Yes	No	No	No	No	No	No	No
27439	CECR6	cat eye syndrome chromosome region, candidate 6	0.0389658	Yes	No	No	No	No	No	No	No
93663	ARHGAP18	Rho GTPase activating protein 18	0.0389687	Yes	Yes	No	No	No	No	No	No
4998	ORC1L	origin recognition complex, subunit 1-like (yeast)	0.0389815	No	No	No	No	No	No	Yes	No
9647	PPM1F	protein phosphatase 1F (PP2C domain containing)	0.0391119	Yes	No	No	No	No	No	No	No
57626	KLHL1	kelch-like 1 (Drosophila)	0.0391592	Yes	No	No	No	No	No	No	No
64766	S100BP	S100P binding protein	0.0394759	No	No	No	No	No	No	Yes	No
8638	OASL	2'-5'-oligoadenylate synthetase-like	0.0394982	Yes	No	No	No	No	No	No	No
148979	GLIS1	GLIS family zinc finger 1	0.0398656	Yes	No	No	No	No	No	No	No
94027	CGB7	chorionic gonadotropin, beta polypeptide 7	0.040084	Yes	No	No	No	No	No	No	No
9486	CHST10	carbohydrate sulfotransferase 10	0.0402836	Yes	No	No	No	No	No	No	No
5142	PDE4B	phosphodiesterase 4B, cAMP-specific (phosphodiesterase E4 dunce homolog, Drosophila)	0.0407995	Yes	No	No	No	No	No	No	No
1788	DNMT3A	DNA (cytosine-5-)-methyltransferase 3 alpha	0.0409172	Yes	Yes	No	No	No	No	No	No
7798	LUZP1	leucine zipper protein 1	0.0413899	Yes	Yes	No	No	No	No	No	No
9836	LCMT2	leucine carboxyl methyltransferase 2	0.0414695	Yes	No	No	No	No	No	No	No
58484	NLRC4	NLR family, CARD domain containing 4	0.0415691	Yes	No	No	No	No	No	No	No
55973	BCAP29	B-cell receptor-associated protein 29	0.0417372	Yes	No	No	No	No	No	No	No
162417	NAGS	N-acetylglutamate synthase	0.041818	Yes	No	No	No	No	No	No	No
1956	EGFR	epidermal growth factor receptor (erythroblastic leukemia viral (v-erb-b) oncogene homolog, avian)	0.0422246	Yes	No	No	No	No	No	No	No
785	CACNB4	calcium channel, voltage-dependent, beta 4 subunit	0.0424892	Yes	No	No	No	No	No	No	No
26270	FBXO6	F-box protein 6	0.0425172	Yes	No	No	No	No	No	No	No
3709	ITPR2	inositol 1,4,5-triphosphate receptor, type 2	0.0425409	Yes	No	No	No	No	No	Yes	No
57530	CGN	cingulin	0.0425446	Yes	No	No	No	No	No	No	No
826	CAPNS1	calpain, small subunit 1	0.0426436	Yes	No	No	No	No	No	No	No
6256	RXRA	retinoid X receptor, alpha	0.0428543	Yes	No	No	No	No	No	No	No
26064	RAI14	retinoic acid induced 14	0.0429187	Yes	No	No	No	No	No	No	No
54520	CCDC93	coiled-coil domain containing 93	0.0431262	Yes	No	No	No	No	No	No	No
9736	USP34	ubiquitin specific peptidase 34	0.0431329	No	No	No	No	No	No	Yes	No
3172	HNF4A	hepatocyte nuclear factor 4, alpha	0.0431344	Yes	No	No	No	No	No	No	No
9246	UBE2L6	ubiquitin-conjugating enzyme E2L 6	0.0431365	Yes	No	No	No	No	No	No	No
10207	INADL	InaD-like (Drosophila)	0.0433468	Yes	No	No	No	No	No	No	No
388335	TMEM220	transmembrane protein 220	0.0436985	Yes	Yes	No	No	No	No	No	No
63916	ELMO2	engulfment and cell motility 2	0.0437759	Yes	No	No	No	No	No	No	No

3354	HTR1E	5-hydroxytryptamine (serotonin) receptor 1E	0.0438526	No	Yes	No	No	No	No	No	No
133558	FLJ40243	hypothetical protein FLJ40243	0.0440849	Yes	No	No	No	No	No	No	No
6692	SPINT1	serine peptidase inhibitor, Kunitz type 1	0.0441027	Yes	No	No	No	No	No	No	No
1646	AKR1C2	aldo-keto reductase family 1, member C2 (dihydrodiol dehydrogenase 2; bile acid binding protein; 3-alpha hydroxysteroid dehydrogenase, type III)	0.0443139	Yes	No	No	No	No	No	No	No
4914	NTRK1	neurotrophic tyrosine kinase, receptor, type 1	0.0443759	No	Yes	No	No	No	No	No	No
7466	WFS1	Wolfram syndrome 1 (wolframin)	0.0443765	Yes	No	No	No	No	No	No	No
25981	DNAH1	dynein, axonemal, heavy chain 1	0.044458	Yes	No	No	No	No	No	No	No
29922	NME7	non-metastatic cells 7, protein expressed in (nucleoside-diphosphate kinase)	0.044482	No	No	No	No	No	Yes	No	No
11321	GPN1	GPN-loop GTPase 1	0.0445239	No	No	No	No	No	Yes	No	No
1263	PLK3	polo-like kinase 3 (Drosophila)	0.0449386	Yes	No	No	No	No	No	No	No
222235	FBXL13	F-box and leucine-rich repeat protein 13	0.0450142	Yes	No	No	No	No	No	No	No
1230	CCR1	chemokine (C-C motif) receptor 1	0.0450348	Yes	No	No	No	No	No	No	No
4600	MX2	myxovirus (influenza virus) resistance 2 (mouse)	0.0450379	Yes	No	No	No	No	No	No	No
55621	TRMT1	TRM1 (RNA methyltransferase 1 homolog (S. cerevisiae))	0.0450918	Yes	No	No	No	No	Yes	Yes	Yes
9562	MINPP1	multiple inositol polyphosphate histidine phosphatase, 1	0.0455059	Yes	Yes	No	No	No	No	No	No
196383	RILPL2	Rab interacting lysosomal protein-like 2	0.0455538	Yes	Yes	No	No	No	No	No	No
78987	CRELD1	cysteine-rich with EGF-like domains 1	0.0461609	Yes	No	No	No	No	No	No	No
4839	NOL1	nucleolar protein 1, 120kDa	0.0462735	No	No	No	No	No	Yes	No	No
54505	DHX29	DEAH (Asp-Glu-Ala-His) box polypeptide 29	0.0464431	No	No	No	No	No	Yes	No	No
23061	TBC1D9B	TBC1 domain family, member 9B (with GRAM domain)	0.0465854	Yes	No	No	No	No	No	No	No
55711	FAR2	fatty acyl CoA reductase 2	0.0466952	Yes	No	No	No	No	No	No	No
136227	EMID2	EMI domain containing 2	0.0468219	Yes	No	No	No	No	No	No	No
28512	NKIRAS1	NFKB inhibitor interacting Ras-like 1	0.0468702	Yes	No	No	No	No	Yes	No	No
4650	MYO9B	myosin IXB	0.0473368	Yes	No	No	No	No	No	No	No
6296	ACSM3	acyl-CoA synthetase medium-chain family member 3	0.0478333	Yes	No	No	No	No	No	No	No
51168	MYO15A	myosin XVa	0.0478394	Yes	No	No	No	No	No	No	No
54455	FBXO42	F-box protein 42	0.0479803	Yes	No	No	No	No	No	No	No
10723	SLC12A7	solute carrier family 12 (potassium/chloride transporters), member 7	0.0481539	Yes	No	No	No	No	No	No	No
2273	FHL1	four and a half LIM domains 1	0.0484017	Yes	No	No	No	No	No	No	No
5204	PFDN5	prefoldin subunit 5	0.0484543	Yes	No	No	No	No	No	No	No
348035	MGC40069	hypothetical protein MGC40069	0.0486149	Yes	No	No	No	No	No	No	No
9640	ZNF592	zinc finger protein 592	0.0488358	Yes	No	No	No	No	Yes	No	No
1045	CDX2	caudal type homeobox 2	0.0489359	Yes	No	No	No	No	No	No	No
131034	CPNE4	copine IV	0.0489442	Yes	No	No	No	No	No	No	No

1117	CHI3L2	chitinase 3-like 2	0.0489474	Yes	No	No	No	No	No	No	No
6279	S100A8	S100 calcium binding protein A8	0.0490619	Yes	No	No	No	No	No	No	No
120526	DPH4	DPH4, JJJ3 homolog (S. cerevisiae)	0.0490878	Yes	Yes	No	No	No	No	No	No
10610	ST6GALNAC2	ST6 (alpha-N-acetylneuraminyl-2,3-beta-galactosyl-1,3)-N-acetylgalactosaminide alpha-2,6-sialyltransferase 2	0.0492121	Yes	No	No	No	No	No	No	No
64983	MRPL32	mitochondrial ribosomal protein L32	0.0496382	No	No	No	No	No	No	Yes	No
5264	PHYH	phytanoyl-CoA 2-hydroxylase	0.0497659	Yes	No	No	No	No	No	No	No
429	ASCL1	achaete-scute complex homolog 1 (Drosophila)	0.0502673	Yes	No	No	No	No	No	No	No
2560	GABRB1	gamma-aminobutyric acid (GABA) A receptor, beta 1	0.0503409	Yes	No	No	No	No	No	No	No
23181	DIP2A	DIP2 disco-interacting protein 2 homolog A (Drosophila)	0.0503562	Yes	No	No	No	No	No	No	No
1838	DTNB	dystrobrevin, beta	0.0505387	Yes	No	No	No	No	No	No	No
9672	EIF4G3	eukaryotic translation initiation factor 4 gamma, 3	0.0507779	Yes	No	No	No	No	No	No	No
7423	VEGFB	vascular endothelial growth factor B	0.0507922	Yes	No	No	No	No	No	No	No
144715	RAD9B	RAD9 homolog B (S. cerevisiae)	0.0508728	No	No	No	No	No	No	Yes	No
56996	SLC12A9	solute carrier family 12 (potassium/chloride transporters), member 9	0.0511531	Yes	No	No	No	No	No	No	No
1009	CDH11	cadherin 11, type 2, OB-cadherin (osteoblast)	0.0513886	Yes	No	No	No	No	No	No	No
8817	FGF18	fibroblast growth factor 18	0.0514591	Yes	No	No	No	No	No	No	No
64645	HIAT1	hippocampus abundant transcript 1	0.0515259	Yes	Yes	No	No	No	No	Yes	No
155465	AGR3	anterior gradient homolog 3 (Xenopus laevis)	0.0516546	Yes	No	No	No	No	No	No	No
54442	KCTD5	potassium channel tetramerisation domain containing 5	0.0516578	Yes	No	No	No	No	No	No	No
5822	PWP2	PWP2 periodic tryptophan protein homolog (yeast)	0.051682	Yes	No	No	No	No	No	No	No
10087	COL4A3BP	collagen, type IV, alpha 3 (Goodpasture antigen) binding protein	0.0517129	No	No	No	No	No	No	Yes	No
9260	PDLIM7	PDZ and LIM domain 7 (enigma)	0.0517205	Yes	No	No	No	No	No	No	No
54988	ACSM5	acyl-CoA synthetase medium-chain family member 5	0.0517604	Yes	No	No	No	No	No	No	No
54413	NLGN3	neuroligin 3	0.0518204	Yes	No	No	No	No	No	No	No
84272	YIPF4	Yip1 domain family, member 4	0.0519115	No	No	No	No	No	No	Yes	No
2903	GRIN2A	glutamate receptor, ionotropic, N-methyl D-aspartate 2A	0.0520274	Yes	No	No	No	No	No	No	No
64108	RTP4	receptor (chemosensory) transporter protein 4	0.0520658	Yes	No	No	No	No	No	No	No
712	C1QA	complement component 1, q subcomponent, A chain	0.0522022	Yes	No	No	No	No	No	No	No
5906	RAP1A	RAP1A, member of RAS oncogene family	0.0522986	Yes	No	No	No	No	No	No	No
387990	UNC9438	TIMM9	0.0524448	Yes	No	No	No	No	No	No	No
51172	NAGPA	N-acetylglucosamine-1-phosphodiester alpha-N-acetylglucosaminidase	0.0524497	Yes	No	No	No	No	No	No	No
5277	PIGA	phosphatidylinositol glycan anchor biosynthesis, class A (paroxysmal nocturnal hemoglobinuria)	0.052507	Yes	No	No	No	No	No	No	No
57511	COG6	component of oligomeric golgi complex 6	0.0526751	Yes	No	No	No	No	No	No	No
8048	CSRP3	cysteine and glycine-rich protein 3 (cardiac LIM protein)	0.0528131	Yes	No	No	No	No	No	No	No

55342	STRBP	spermatid perinuclear RNA binding protein	0.0528216	Yes	No	No	No	No	No	No	No
7695	ZNF136	zinc finger protein 136	0.0529509	Yes	No	No	No	No	No	No	No
1573	CYP2J2	cytochrome P450, family 2, subfamily J, polypeptide 2	0.0537905	Yes	No	No	No	No	No	No	No
5408	PNLIPRP2	pancreatic lipase-related protein 2	0.053793	Yes	No	No	No	No	No	No	No
50840	TAS2R14	taste receptor, type 2, member 14	0.0539106	No	No	No	No	No	Yes	No	No
4134	MAP4	microtubule-associated protein 4	0.0539696	Yes	No	No	No	No	No	No	No
5813	PURA	purine-rich element binding protein A	0.0540858	No	Yes	No	No	No	No	No	No
340526	RGAG4	retrotransposon gag domain containing 4	0.0541565	Yes	No	No	No	No	No	No	No
8897	MTMR3	myotubularin related protein 3	0.0544323	Yes	No	No	No	No	No	No	No
57614	KIAA1468	KIAA1468	0.0545396	Yes	No	No	No	No	No	No	No
3001	GZMA	granzyme A (granzyme 1, cytotoxic T-lymphocyte-associated serine esterase 3)	0.0547718	Yes	No	No	No	No	No	No	No
255626	HIST1H2BA	histone cluster 1, H2ba	0.0548617	Yes	No	No	No	No	No	No	No
144195	SLC2A14	solute carrier family 2 (facilitated glucose transporter), member 14	0.0549557	Yes	No	No	No	No	No	No	No
27254	CSDC2	cold shock domain containing C2, RNA binding	0.0550173	Yes	No	No	No	No	No	No	No
26297	SERGEF	secretion regulating guanine nucleotide exchange factor	0.0551477	Yes	No	No	No	No	No	No	No
10529	NEBL	nebulette	0.0552848	Yes	No	No	No	No	No	No	No
6524	SLC5A2	solute carrier family 5 (sodium/glucose cotransporter), member 2	0.0558198	No	Yes	No	No	No	No	No	No
1460	CSNK2B	casein kinase 2, beta polypeptide	0.0559576	Yes	No	No	No	No	No	No	No
9563	H6PD	hexose-6-phosphate dehydrogenase (glucose 1-dehydrogenase)	0.0559729	Yes	No	No	No	No	No	No	No
55108	BSDC1	BSD domain containing 1	0.0561576	Yes	No	No	No	No	No	No	No
7169	TPM2	tropomyosin 2 (beta)	0.0563589	Yes	No	No	No	No	No	No	No
2213	FCGR2B	Fc fragment of IgG, low affinity IIb, receptor (CD32)	0.0572189	Yes	No	No	No	No	No	No	No
26150	RIBC2	RIB43A domain with coiled-coils 2	0.0572922	Yes	No	No	No	No	Yes	No	No
197	AHSG	alpha-2-HS-glycoprotein	0.0574202	Yes	No	No	No	No	No	No	No
824	CAPN2	calpain 2, (mII) large subunit	0.0575802	Yes	No	No	No	No	No	No	No
55225	RAVER2	ribonucleoprotein, PTB-binding 2	0.0580786	Yes	No	No	No	No	No	No	No
23646	PLD3	phospholipase D family, member 3	0.0581849	Yes	No	No	No	No	No	No	No
3995	FADS3	fatty acid desaturase 3	0.0583299	Yes	No	No	No	No	No	No	No
56136	PCDHA13	protocadherin alpha 13	0.0584922	Yes	No	No	No	No	No	No	No
11162	NUDT6	nudix (nucleoside diphosphate linked moiety X)-type motif 6	0.0586669	No	No	No	No	No	Yes	No	No
152137	CCDC50	coiled-coil domain containing 50	0.0586923	Yes	Yes	No	No	No	No	No	No
60489	APOBEC3G	apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3G	0.0587476	Yes	No	No	No	No	No	No	No
54552	GNL3L	guanine nucleotide binding protein-like 3 (nucleolar)-like	0.0587779	No	No	No	No	No	Yes	No	No
2147	F2	coagulation factor II (thrombin)	0.0588725	Yes	No	No	No	No	Yes	No	No

2827	GPR3	G protein-coupled receptor 3	0.0588775	Yes	No	No	No	No	No	Yes	No
11179	ZNF277	zinc finger protein 277	0.0588881	Yes	No	No	No	No	No	No	No
374403	TBC1D10C	TBC1 domain family, member 10C	0.0593398	Yes	No	No	No	No	No	No	No
57148	KIAA1219	KIAA1219	0.059409	Yes	No	No	No	No	No	No	No
5563	PRKAA2	protein kinase, AMP-activated, alpha 2 catalytic subunit	0.0596169	Yes	No	No	No	No	No	No	No
51384	WNT16	wingless-type MMTV integration site family, member 16	0.0597415	Yes	No	No	No	No	No	No	No
2268	FGR	Gardner-Rasheed feline sarcoma viral (v-fgr) oncogene homolog	0.0600768	Yes	No	No	No	No	No	No	No
466	ATF1	activating transcription factor 1	0.0602133	Yes	No	No	No	No	No	No	No
30008	EFEMP2	EGF-containing fibulin-like extracellular matrix protein 2	0.0602854	Yes	No	No	No	No	No	No	No
10410	IFITM3	interferon induced transmembrane protein 3 (1-8U)	0.0606595	Yes	No	No	No	No	No	No	No
7727	ZNF174	zinc finger protein 174	0.0607443	Yes	No	No	No	No	No	No	No
51704	GPRC5B	G protein-coupled receptor, family C, group 5, member B	0.0608535	Yes	No	No	No	No	No	No	No
30001	ERO1L	ERO1-like (S. cerevisiae)	0.0608851	Yes	No	No	No	No	No	No	No
53827	FXYS	FXYS domain containing ion transport regulator 5	0.0610763	Yes	No	No	No	No	No	No	No
10809	STARD10	SIAR-related lipid transfer (START) domain containing 10	0.0614087	Yes	No	No	No	No	No	No	No
51086	TNN3K	TNN3 interacting kinase	0.0614462	No	No	No	No	No	No	Yes	No
11255	HRH3	histamine receptor H3	0.061456	Yes	No	No	No	No	No	No	No
4499	MT1M	metallothionein 1M	0.0616553	Yes	No	No	No	No	No	No	No
27090	ST6GALNAC4	ST6 (alpha-N-acetyl-neuraminyl-2,3-beta-galactosyl-1,3)-N-acetylgalactosaminide alpha-2,6-sialyltransferase 4	0.0616902	Yes	Yes	No	No	No	No	No	No
6275	S100A4	S100 calcium binding protein A4	0.0619209	Yes	No	No	No	No	No	No	No
55716	LMBR1L	limb region 1 homolog (mouse)-like	0.0621195	Yes	No	No	No	No	No	No	No
1943	EFNA2	ephrin-A2	0.0622393	Yes	No	No	No	No	No	No	No
5921	RASA1	RAS p21 protein activator (GTPase activating protein) 1	0.0623605	Yes	No	No	No	No	No	No	No
84818	IL17RC	interleukin 17 receptor C	0.062693	Yes	No	No	No	No	No	No	No
5083	PAX9	paired box 9	0.0633165	No	Yes	No	No	No	No	No	No
8797	TNFRSF10A	tumor necrosis factor receptor superfamily, member 10a	0.0635207	Yes	No	No	No	No	No	No	No
8303	SNN	stannin	0.0636419	Yes	No	No	No	No	No	No	No
4016	LOXL1	lysyl oxidase-like 1	0.0636442	Yes	No	No	No	No	No	No	No
6375	XCL1	chemokine (C motif) ligand 1	0.0636991	Yes	No	No	No	No	No	No	No
10270	AKAP8	A kinase (PRKA) anchor protein 8	0.0643083	Yes	No	No	No	No	No	No	No
84957	RELT	RELT tumor necrosis factor receptor	0.0645024	Yes	No	No	No	No	No	No	No
54463	FAM134B	family with sequence similarity 134, member B	0.0645676	Yes	No	No	No	No	No	No	No
84634	KISS1R	KISS1 receptor	0.0646088	Yes	No	No	No	No	No	No	No
55970	GNG12	guanine nucleotide binding protein (G protein), gamma 12	0.0647874	Yes	No	No	No	No	No	No	No

4917	NTN2L	netrin 2-like (chicken)	0.0648891	No	No	No	No	No	No	Yes	No
9578	CDC42BPB	CDC42 binding protein kinase beta (DMPK-like)	0.0649649	Yes	No	No	No	No	No	No	No
89884	LHX4	LIM homeobox 4	0.0650109	Yes	No	No	No	No	No	No	No
845	CASQ2	calsequestrin 2 (cardiac muscle)	0.0651531	Yes	No	No	No	No	No	No	No
5446	PON3	paraoxonase 3	0.0653298	Yes	No	No	No	No	No	No	No
2833	CXCR3	chemokine (C-X-C motif) receptor 3	0.0653359	Yes	No	No	No	No	No	No	No
6710	SPTB	spectrin, beta, erythrocytic (includes spherocytosis, clinical type I)	0.0653356	Yes	No	No	No	No	No	No	No
6928	HNF1B	HNF1 homeobox B	0.065374	Yes	No	No	No	No	No	No	No
9603	NFE2L3	nuclear factor (erythroid-derived 2)-like 3	0.0655405	Yes	No	No	No	No	No	No	No
11119	BTN3A1	butyrophilin, subfamily 3, member A1	0.0655459	Yes	No	No	No	No	No	No	No
10864	SLC22A7	solute carrier family 22 (organic anion transporter), member 7	0.0656672	Yes	No	No	No	No	No	No	No
4985	OPRD1	opioid receptor, delta 1	0.0657717	Yes	No	No	No	No	No	No	No
131870	NUDT16	nudix (nucleoside diphosphate linked moiety X)-type motif 16	0.066004	Yes	No	No	No	No	No	No	No
9901	SRGAP3	SLIT-ROBO Rho GTPase activating protein 3	0.0662823	Yes	No	No	No	No	No	No	No
83696	NIBP	trafficking protein particle complex 9	0.0665698	Yes	No	No	No	No	No	No	No
54438	GFOD1	glucose-fructose oxidoreductase domain containing 1	0.0669845	No	No	No	No	No	No	Yes	No
7475	WNT6	wingless-type MMTV integration site family, member 6	0.0670396	Yes	No	No	No	No	No	No	No
23443	SLC35A3	solute carrier family 35 (UDP-N-acetylglucosamine (UDP-GlcNAc) transporter), member A3	0.0672077	Yes	No	No	No	No	No	No	No
63827	BCAN	brevican	0.0676821	Yes	No	No	No	No	No	No	No
26155	NOC2L	nucleolar complex associated 2 homolog (S. cerevisiae)	0.0677584	Yes	No	No	No	No	No	No	No
140807	KRT72	keratin 72	0.0678718	Yes	No	No	No	No	No	No	No
56916	SMARCAD1	SWI/SNF-related, matrix-associated actin-dependent regulator of chromatin, subfamily a, containing DEAD/H box 1	0.0686204	No	No	No	No	No	No	Yes	No
83666	PARP9	poly (ADP-ribose) polymerase family, member 9	0.0686909	Yes	Yes	No	No	No	No	No	No
121665	UNQ1887	signal peptide peptidase 3	0.0688252	Yes	No	No	No	No	No	No	No
91768	CABLES1	Cdk5 and Abl enzyme substrate 1	0.0688402	Yes	No	No	No	No	No	No	No
80011	NIP30	NEFA-interacting nuclear protein NIP30	0.0692129	No	No	No	No	No	No	Yes	No
9940	DLEC1	deleted in lung and esophageal cancer 1	0.0693618	Yes	No	No	No	No	No	No	No
5834	PYGB	phosphorylase, glycogen; brain	0.0693746	Yes	No	No	No	No	No	Yes	No
23002	DAAM1	dishevelled associated activator of morphogenesis 1	0.0694186	No	Yes	No	No	No	No	No	No
149628	PYHIN1	pyrin and HIN domain family, member 1	0.0695031	Yes	No	No	No	No	No	No	No
9537	TP53I11	tumor protein p53 inducible protein 11	0.0695701	Yes	No	No	No	No	No	No	No
909	CD1A	CD1a molecule	0.0697577	Yes	No	No	No	No	No	No	No
9811	KIAA0427	KIAA0427	0.0698443	Yes	No	No	No	No	No	No	No
27236	ARFIP1	ADP-ribosylation factor interacting protein 1 (arfaptin 1)	0.069905	Yes	No	No	No	No	No	No	No

79364	ZXDC	ZXD family zinc finger C	0.0704739	Yes	No	No	No	No	No	No	No
28982	FLVCR1	feline leukemia virus subgroup C cellular receptor 1	0.0705841	Yes	No	No	No	No	No	No	No
144608	C12orf60	chromosome 12 open reading frame 60	0.0706104	No	No	No	No	No	Yes	No	No
54578	UGT1A6	UDP glucuronosyltransferase 1 family, polypeptide A6	0.0707114	Yes	No	No	No	No	No	No	No
112483	SAT2	spermidine/spermine N1-acetyltransferase family member 2	0.0714625	Yes	No	No	No	No	No	No	No
776	CACNA1D	calcium channel, voltage-dependent, L type, alpha 1D subunit	0.0719388	Yes	No	No	No	No	No	No	No
23263	MCF2L	MCF.2 cell line derived transforming sequence-like	0.0719639	Yes	No	No	No	No	No	No	No
116985	CENTD2	centaurin, delta 2	0.0722975	Yes	No	No	No	No	No	No	No
2863	GPR39	G protein-coupled receptor 39	0.0724092	Yes	No	No	No	No	No	No	No
10791	VAMP5	vesicle-associated membrane protein 5 (myobrevin)	0.0726472	Yes	No	No	No	No	No	No	No
3047	HGB1	hemoglobin, gamma A	0.0728207	Yes	No	No	No	No	No	No	No
80108	ZFP2	zinc finger protein 2 homolog (mouse)	0.0728486	Yes	No	No	No	No	No	No	No
57154	SMURF1	SMAD specific E3 ubiquitin protein ligase 1	0.0730511	Yes	Yes	No	No	No	No	No	No
658	BMPR1B	bone morphogenetic protein receptor, type IB	0.0737121	Yes	No	No	No	No	No	No	No
1428	CRYM	crystallin, mu	0.0741524	No	No	No	No	No	Yes	No	No
81926	FAM108A1	family with sequence similarity 108, member A1	0.0741916	Yes	No	No	No	No	No	No	No
89894	TMEM116	transmembrane protein 116	0.0742366	No	No	No	No	No	Yes	No	No
1291	COL6A1	collagen, type VI, alpha 1	0.0742894	Yes	No	No	No	No	No	No	No
81618	ITM2C	integral membrane protein 2C	0.0744612	Yes	No	No	No	No	No	No	No
7145	TNS1	tensin 1	0.0750304	Yes	No	No	No	No	No	No	No
8480	RAE1	RAE1 RNA export 1 homolog (S. pombe)	0.0752428	Yes	No	No	No	No	No	No	No
2066	ERBB4	v-erb-a erythroblastic leukemia viral oncogene homolog 4 (avian)	0.0754225	Yes	No	No	No	No	No	No	No
89890	KBTBD6	kelch repeat and BTB (POZ) domain containing 6	0.0754383	Yes	No	No	No	No	No	No	No
80256	KIAA1539	KIAA1539	0.0756335	Yes	No	No	No	No	No	No	No
1297	COL9A1	collagen, type IX, alpha 1	0.075891	Yes	No	No	No	No	No	No	No
80028	FBXL18	F-box and leucine-rich repeat protein 18	0.0759873	Yes	No	No	No	No	No	No	No
9655	SOCS5	suppressor of cytokine signaling 5	0.0765357	Yes	Yes	No	No	No	No	No	No
5865	RAB3B	RAB3B, member RAS oncogene family	0.0768304	Yes	No	No	No	No	No	No	No
2077	ERF	Ets2 repressor factor	0.0769097	Yes	No	No	No	No	No	No	No
57190	SEPN1	selenoprotein N, 1	0.0769927	Yes	No	No	No	No	No	No	No
222894	FERD3L	Fer3-like (Drosophila)	0.0776575	No	Yes	No	No	No	No	No	No
7289	TULP3	tubby like protein 3	0.077723	Yes	No	No	No	No	No	No	No
6764	ST5	suppression of tumorigenicity 5	0.0781418	No	No	No	No	No	Yes	No	No
3700	ITI4	inter-alpha (globulin) inhibitor H4 (plasma Kallikrein-sensitive glycoprotein)	0.0781808	Yes	No	No	No	No	No	No	No

23302	WSCD1	WSC domain containing 1	0.0784781	Yes	No	No	No	No	No	No	No
55728	N4BP2	NEDD4 binding protein 2	0.0789589	No	No	No	No	No	Yes	No	No
10437	IFI30	interferon, gamma-inducible protein 30	0.0792864	Yes	No	No	No	No	No	No	No
147699	FLJ40125	hypothetical protein FLJ40125	0.0794256	Yes	No	No	No	No	No	No	No
9093	DNAJA3	DnaJ (Hsp40) homolog, subfamily A, member 3	0.0795041	No	No	No	No	No	Yes	No	No
55080	TAPBPL	TAP binding protein-like	0.0795947	Yes	No	No	No	No	No	No	No
56995	TULP4	tubby like protein 4	0.0799447	Yes	No	No	No	No	No	No	No
55278	QRSL1	glutamyl-tRNA synthase (glutamine-hydrolyzing)-like 1	0.0799731	Yes	No	No	No	No	No	No	No
79009	DDX50	DEAD (Asp-Glu-Ala-Asp) box polypeptide 50	0.0801383	Yes	No	No	No	No	No	No	No
5800	PTPRO	protein tyrosine phosphatase, receptor type, O	0.0802882	Yes	No	No	No	No	No	No	No
30817	EMR2	egf-like module containing, mucin-like, hormone receptor-like 2	0.0805861	Yes	No	No	No	No	No	No	No
54795	TRPM4	transient receptor potential cation channel, subfamily M, member 4	0.0807671	Yes	No	No	No	No	No	No	No
2048	EPHB2	EPH receptor B2	0.0808182	Yes	No	No	No	No	No	No	No
64843	ISL2	ISL LIM homeobox 2	0.0809168	No	No	No	No	No	Yes	No	No
10468	FST	folistatin	0.0810373	Yes	No	No	No	No	No	No	No
54841	BIVM	basic, immunoglobulin-like variable motif containing	0.0811242	No	No	No	No	No	Yes	No	No
6563	SLC14A1	solute carrier family 14 (urea transporter), member 1 (Kidd blood group)	0.0814339	Yes	No	No	No	No	No	No	No
165829	GPR156	G protein-coupled receptor 156	0.0815079	Yes	No	No	No	No	No	No	No
153364	LOC153364	similar to metallo-beta-lactamase superfamily protein	0.0815449	Yes	Yes	No	No	No	No	No	No
6809	STX3	syntaxin 3	0.0815513	Yes	No	No	No	No	No	No	No
5863	RGL2	ral guanine nucleotide dissociation stimulator-like 2	0.0820962	Yes	No	No	No	No	No	No	No
401190	RGS7BP	regulator of G-protein signaling 7 binding protein	0.0821988	Yes	No	No	No	No	No	No	No
25850	ZNF345	zinc finger protein 345	0.0822193	Yes	No	No	No	No	No	No	No
252995	FNDC5	fibronectin type III domain containing 5	0.08242	Yes	No	No	No	No	No	No	No
4345	CD200	CD200 molecule	0.0831963	Yes	No	No	No	No	No	No	No
5959	RDH5	retinol dehydrogenase 5 (11-cis/9-cis)	0.0832006	Yes	No	No	No	No	No	No	No
1384	CRAT	carnitine acetyltransferase	0.0839962	Yes	No	No	No	No	No	No	No
23583	SMUG1	single-strand-selective monofunctional uracil-DNA glycosylase 1	0.0844364	Yes	No	No	No	No	No	No	No
27185	DISC1	disrupted in schizophrenia 1	0.0848526	Yes	No	No	No	No	No	No	No
29948	OSGIN1	oxidative stress inducible growth inhibitor 1	0.0848604	Yes	No	No	No	No	No	No	No
1030	CDKN2B	cyclin-dependent kinase inhibitor 2B (p15, inhibits CDK4)	0.0848946	Yes	No	No	No	No	No	No	No
8537	BCAS1	breast carcinoma amplified sequence 1	0.0852234	Yes	No	No	No	No	No	No	No
661	POLR3D	polymerase (RNA) III (DNA directed) polypeptide D, 44kDa	0.0859152	Yes	No	No	No	No	No	No	No
1723	DHODH	dihydroorotate dehydrogenase	0.0860241	Yes	Yes	No	No	No	No	No	No

587	BCAT2	branched chain aminotransferase 2, mitochondrial	0.0863518	Yes	No	No	No	No	No	No	No
55515	ACCN4	amiloride-sensitive cation channel 4, pituitary	0.0866661	Yes	No	No	No	No	No	No	No
273	AMPH	amphiphysin	0.0868648	Yes	No	No	No	No	No	No	No
54834	GDAP2	ganglioside induced differentiation associated protein 2	0.0870394	Yes	No	No	No	No	Yes	No	No
50856	CLECA4	C-type lectin domain family 4, member A	0.0872665	Yes	No	No	No	No	No	No	No
3338	DNAJC4	DnaJ (Hsp40) homolog, subfamily C, member 4	0.0873096	Yes	No	No	No	No	No	No	No
254394	MCM9	minichromosome maintenance complex component 9	0.0874537	Yes	No	No	No	No	No	No	No
60482	SLCSA7	solute carrier family 5 (choline transporter), member 7	0.0876068	Yes	No	No	No	No	No	No	No
93129	ORAI3	ORAI calcium release-activated calcium modulator 3	0.0876336	Yes	No	No	No	No	No	No	No
64127	NOD2	nucleotide-binding oligomerization domain containing 2	0.0880139	Yes	Yes	No	No	No	No	No	No
8989	TRPA1	transient receptor potential cation channel, subfamily A, member 1	0.0885532	Yes	Yes	No	No	No	No	No	No
4088	SMAD3	SMAD family member 3	0.0887686	Yes	No	No	No	No	No	No	No
976	CD97	CD97 molecule	0.0894494	Yes	No	No	No	No	No	No	No
9973	CCS	copper chaperone for superoxide dismutase	0.089513	Yes	No	No	No	No	Yes	No	No
9436	NCR2	natural cytotoxicity triggering receptor 2	0.089998	Yes	No	No	No	No	No	No	No
5125	PCSK5	proprotein convertase subtilisin/kexin type 5	0.0902034	Yes	No	No	No	No	No	No	No
143458	LDLRAD3	low density lipoprotein receptor class A domain containing 3	0.0903843	Yes	No	No	No	No	No	No	No
2247	FGF2	fibroblast growth factor 2 (basic)	0.0911175	Yes	No	No	No	No	No	No	No
57153	SLC44A2	solute carrier family 44, member 2	0.0911203	Yes	No	No	No	No	No	No	No
339541	MGC33556	hypothetical LOC339541	0.0911668	Yes	No	No	No	No	No	No	No
126070	ZNF440	zinc finger protein 440	0.0915376	Yes	No	No	No	No	No	No	No
58477	SRPRB	signal recognition particle receptor, B subunit	0.0915835	Yes	Yes	No	No	No	No	No	No
3303	HSPA1A	heat shock 70kDa protein 1A	0.0916656	Yes	No	No	No	No	No	No	No
23413	FREQ	frequenin homolog (Drosophila)	0.0917092	Yes	Yes	No	No	No	No	No	No
4091	SMAD6	SMAD family member 6	0.0920089	No	No	No	No	No	Yes	No	No
6328	SCN3A	sodium channel, voltage-gated, type III, alpha subunit	0.0920822	Yes	No	No	No	No	No	No	No
79148	MMP28	matrix metalloproteinase 28	0.0921066	Yes	No	No	No	No	No	No	No
327	APEH	N-acylaminoacyl-peptide hydrolase	0.092176	No	Yes	No	No	No	No	No	No
10073	SNUPN	snurportin 1	0.0925375	No	No	No	No	No	Yes	No	No
51277	RBJ	rab and DnaJ domain containing	0.0931303	No	No	No	No	No	Yes	No	No
3955	LFNG	LFNG O-fucosylpeptide 3-beta-N-acetylglucosaminyltransferase	0.0937233	Yes	No	No	No	No	No	No	No
1387	CREBBP	CREB binding protein (Rubinstein-Taybi syndrome)	0.0939399	Yes	No	No	No	No	No	No	No
56131	PCDHB4	protocadherin beta 4	0.093989	Yes	No	No	No	No	No	No	No
10379	IRF9	interferon regulatory factor 9	0.0940624	Yes	No	No	No	No	No	No	No

55679	LIMS2	LIM and senescent cell antigen-like domains 2	0.0941729	Yes	No	No	No	No	No	No	No
25875	LETMD1	LETM1 domain containing 1	0.0942162	No	No	No	No	No	No	Yes	No
65975	STK33	serine/threonine kinase 33	0.0944291	Yes	No	No	No	No	No	No	No
8815	BANF1	barrier to autointegration factor 1	0.0944519	No	No	No	No	No	No	Yes	No
1161	ERCC8	excision repair cross-complementing rodent repair deficiency, complementation group 8	0.0945063	No	No	No	No	No	No	Yes	No
9466	IL27RA	interleukin 27 receptor, alpha	0.0946359	Yes	No	No	No	No	No	No	No
117579	RLN3	relaxin 3	0.0950018	Yes	No	No	No	No	No	No	No
51635	DHRS7	dehydrogenase/reductase (SDR family) member 7	0.0954689	Yes	No	No	No	No	No	No	No
28992	MACROD1	MACRO domain containing 1	0.0958799	Yes	No	No	No	No	No	No	No
9022	CLIC3	chloride intracellular channel 3	0.0959212	Yes	No	No	No	No	No	No	No
118460	EXOSC6	exosome component 6	0.0959403	No	No	No	No	No	No	Yes	No
54739	XAF1	XIAP associated factor 1	0.0961636	Yes	No	No	No	No	No	No	No
2671	GFER	growth factor, augmentor of liver regeneration (ERV1 homolog, <i>S. cerevisiae</i>)	0.0964394	Yes	No	No	No	No	No	No	No
126382	NR2C2AP	nuclear receptor 2C2-associated protein	0.0964395	Yes	No	No	No	No	No	No	No
5396	PRRX1	paired related homeobox 1	0.0965899	Yes	No	No	No	No	No	No	No
117854	TRIM6	tripartite motif-containing 6	0.0969521	Yes	Yes	No	No	No	No	No	No
55691	FRMD4A	FERM domain containing 4A	0.0975746	Yes	No	No	No	No	No	No	No
84836	ABHD14B	abhydrolase domain containing 14B	0.0975795	Yes	No	No	No	No	No	No	No
10505	SEMA4F	sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain (semaphorin) 4F	0.0977379	Yes	No	No	No	No	No	No	No
7135	TNNI1	troponin I type 1 (skeletal, slow)	0.097835	Yes	No	No	No	No	No	No	No
79868	ALG13	asparagine-linked glycosylation 13 homolog (<i>S. cerevisiae</i>)	0.0994332	Yes	Yes	No	No	No	No	No	No
9189	ZBED1	zinc finger, BED-type containing 1	0.0994817	Yes	Yes	No	No	No	No	No	No
151011	SEPT10	septin 10	0.0997476	Yes	No	No	No	No	No	No	No
1301	COL11A1	collagen, type XI, alpha 1	0.100268	Yes	No	No	No	No	No	No	No
80031	SEMA6D	sema domain, transmembrane domain (TM), and cytoplasmic domain, (semaphorin) 6D	0.10122	Yes	No	No	No	No	No	No	No
2199	FBLN2	fibulin 2	0.101532	Yes	No	No	No	No	No	No	No
9622	KLK4	kallikrein-related peptidase 4	0.101647	Yes	No	No	No	No	No	No	No
133522	PPARGC1B	peroxisome proliferator-activated receptor gamma, coactivator 1 beta	0.101916	Yes	No	No	No	No	No	No	No
54620	FBXL19	F-box and leucine-rich repeat protein 19	0.102123	No	No	No	No	No	No	Yes	No
286629	SEC14L3	SEC14-like 3 (<i>S. cerevisiae</i>)	0.102703	Yes	No	No	No	No	No	No	No
80746	TSEN2	tRNA splicing endonuclease 2 homolog (<i>S. cerevisiae</i>)	0.103125	Yes	No	No	No	No	No	No	No
2625	GATA3	GATA binding protein 3	0.103528	Yes	No	No	No	No	No	No	No
9326	ZNHIT3	zinc finger, HIT type 3	0.103702	No	No	No	No	No	No	Yes	No
1815	DRD4	dopamine receptor D4	0.10371	Yes	No	No	No	No	No	No	No

6572	SLC18A3	solute carrier family 18 (vesicular acetylcholine), member 3	0.103743	Yes	No	No	No	No	No	No	No
9806	SPOCK2	sparc/osteonectin, cwcv and kazal-like domains proteoglycan (testican) 2	0.103904	Yes	No	No	No	No	No	No	No
1909	EDNRA	endothelin receptor type A	0.10419	Yes	No	No	No	No	No	No	No
164091	PAQR7	progesterin and adipoQ receptor family member VII	0.10513	Yes	Yes	No	No	No	No	No	No
84417	C2orf40	chromosome 2 open reading frame 40	0.105335	Yes	No	No	No	No	No	No	No
284338	PRR19	proline rich 19	0.106295	No	No	No	No	No	No	Yes	No
22894	DIS3	DIS3 mitotic control homolog (S. cerevisiae)	0.106364	Yes	No	No	No	No	No	Yes	Yes
84524	ZC3H8	zinc finger CCCH-type containing 8	0.106742	Yes	No	No	No	No	No	No	No
83935	TMEM133	transmembrane protein 133	0.106847	Yes	No	No	No	No	No	No	No
146852	ODF4	outer dense fiber of sperm tails 4	0.107384	Yes	No	No	No	No	No	No	No
8204	NRIP1	nuclear receptor interacting protein 1	0.107976	Yes	No	No	No	No	No	No	No
10768	AHCYL1	S-adenosylhomocysteine hydrolase-like 1	0.108229	Yes	No	No	No	No	No	No	No
11277	TREX1	three prime repair exonuclease 1	0.108598	No	Yes	No	No	No	No	No	No
3199	HOXA2	homeobox A2	0.108753	Yes	No	No	No	No	No	No	No
6583	SLC22A4	solute carrier family 22 (organic cation/ergothioneine transporter), member 4	0.109034	No	No	No	No	No	No	Yes	No
23177	CEP68	centrosomal protein 68kDa	0.109616	Yes	No	No	No	No	No	No	No
4128	MAOA	monoamine oxidase A	0.1098	Yes	No	No	No	No	No	No	No
5624	POMGNT1	protein O-linked mannose beta1,2-N-acetylglucosaminyltransferase	0.10995	Yes	No	No	No	No	No	No	No
3656	IRAK2	interleukin-1 receptor-associated kinase 2	0.110398	Yes	No	No	No	No	No	No	No
115548	FCHO2	FCH domain only 2	0.110777	Yes	No	No	No	No	No	No	No
57580	PREX1	phosphatidylinositol 3,4,5-trisphosphate-dependent RAC exchanger 1	0.111585	Yes	No	No	No	No	No	No	No
25791	NGEF	neuronal guanine nucleotide exchange factor	0.111795	Yes	No	No	No	No	No	No	No
7011	TEP1	telomerase-associated protein 1	0.111934	Yes	No	No	No	No	No	No	No
9465	AKAP7	A kinase (PRKA) anchor protein 7	0.112286	Yes	No	No	No	No	No	No	No
55314	TMEM144	transmembrane protein 144	0.112741	Yes	No	No	No	No	No	No	No
79739	TTLL7	tubulin tyrosine ligase-like family, member 7	0.112949	Yes	No	No	No	No	No	No	No
287	ANK2	ankyrin 2, neuronal	0.113346	Yes	No	No	No	No	No	No	No
4782	NFIC	nuclear factor IIC (CCAAT-binding transcription factor)	0.113398	Yes	No	No	No	No	No	No	No
79618	HMBOX1	homeobox containing 1	0.113504	Yes	No	No	No	No	No	No	No
3590	IL11RA	interleukin 11 receptor, alpha	0.113713	Yes	No	No	No	No	No	No	No
1181	CLCN2	chloride channel 2	0.114821	No	No	No	No	No	No	Yes	No
5256	PHKA2	phosphorylase kinase, alpha 2 (liver)	0.115164	Yes	No	No	No	No	No	No	No
200186	CRTC2	CREB regulated transcription coactivator 2	0.115256	Yes	No	No	No	No	No	No	No
23286	WWC1	WW and C2 domain containing 1	0.116828	Yes	Yes	No	No	No	No	No	No

6440	SFTPC	surfactant, pulmonary-associated protein C	0.117469	Yes	No	No	No	No	No	No	No
7581	ZNF33A	zinc finger protein 33A	0.117562	Yes	No	No	No	No	No	No	No
122416	ANKRD9	ankyrin repeat domain 9	0.117615	Yes	No	No	No	No	No	No	No
973	CD79A	CD79a molecule, immunoglobulin-associated alpha	0.119067	No	No	No	No	No	No	Yes	No
30819	KCNIP2	Kv channel interacting protein 2	0.119161	Yes	No	No	No	No	No	No	No
2204	FCAR	Fc fragment of IgA, receptor for	0.119167	Yes	No	No	No	No	No	No	No
649	BMP1	bone morphogenetic protein 1	0.120091	Yes	No	No	No	No	No	No	No
23265	EXOC7	exocyst complex component 7	0.120256	Yes	No	No	No	No	No	No	No
6263	RYR3	ryanodine receptor 3	0.120412	Yes	No	No	No	No	No	No	No
65251	ZNF649	zinc finger protein 649	0.120476	Yes	No	No	No	No	No	No	No
3815	KIT	v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog	0.121637	Yes	No	No	No	No	No	No	No
2590	GALNT2	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 2 (GalNAc-T2)	0.12215	Yes	Yes	No	No	No	No	No	No
79814	AGMAT	agmatine ureohydrolase (agmatinase)	0.122557	Yes	No	No	No	No	No	No	No
153579	BTNL9	butyrophilin-like 9	0.123083	No	Yes	No	No	No	No	No	No
5321	PLA2G4A	phospholipase A2, group IVA (cytosolic, calcium-dependent)	0.123171	Yes	No	No	No	No	No	No	No
26094	WDR21A	WD repeat domain 21A	0.12331	Yes	No	No	No	No	No	No	No
23272	C3orf63	chromosome 3 open reading frame 63	0.124328	Yes	No	No	No	No	No	No	No
3755	KCNJ1	potassium voltage-gated channel, subfamily G, member 1	0.124932	Yes	No	No	No	No	No	No	No
23762	OSBP2	oxysterol binding protein 2	0.126267	Yes	No	No	No	No	No	No	No
8490	RGS5	regulator of G-protein signaling 5	0.126508	No	Yes	No	No	No	No	No	No
55816	DOK5	docking protein 5	0.127155	Yes	No	No	No	No	No	No	No
27342	RABGEF1	RAB guanine nucleotide exchange factor (GEF) 1	0.128279	Yes	No	No	No	No	No	No	No
2523	FUT1	fucosyltransferase 1 (galactoside 2-alpha-L-fucosyltransferase, H blood group)	0.129577	Yes	No	No	No	No	No	No	No
653	BMP5	bone morphogenetic protein 5	0.129793	No	Yes	No	No	No	No	No	No
353	APRT	adenine phosphoribosyltransferase	0.129832	Yes	No	No	No	No	No	No	No
79152	FA2H	fatty acid 2-hydroxylase	0.130063	Yes	No	No	No	No	No	No	No
139716	GAB3	GRB2-associated binding protein 3	0.130496	Yes	No	No	No	No	No	No	No
8985	PLOD3	procollagen-lysine, 2-oxoglutarate 5-dioxygenase 3	0.130595	Yes	No	No	No	No	No	Yes	Yes
63934	ZNF667	zinc finger protein 667	0.130917	Yes	No	No	No	No	No	No	No
287015	TRIM42	tripartite motif-containing 42	0.130984	Yes	No	No	No	No	No	No	No
5740	PTGIS	prostaglandin I2 (prostacyclin) synthase	0.130996	Yes	No	No	No	No	No	No	No
23533	PIK3R5	phosphoinositide-3-kinase, regulatory subunit 5	0.13187	Yes	No	No	No	No	No	No	No
54	ACP5	acid phosphatase 5, tartrate resistant	0.133353	Yes	Yes	No	No	No	No	No	No
149095	DCST1	DC-STAMP domain containing 1	0.133448	Yes	No	No	No	No	No	No	No

80279	CDK5RAP3	CDK5 regulatory subunit associated protein 3	0.133643	Yes	No	No	No	No	No	No	No
51442	VGLL1	vestigial like 1 (Drosophila)	0.134855	Yes	No	No	No	No	No	No	No
64881	PODH20	protocadherin 20	0.135137	Yes	No	No	No	No	No	No	No
10066	SCAMP2	secretory carrier membrane protein 2	0.135227	Yes	No	No	No	No	No	No	No
130827	TMEM182	transmembrane protein 182	0.135765	Yes	No	No	No	No	No	No	No
979	CDA	cytidine deaminase	0.137995	Yes	No	No	No	No	No	No	No
54543	TOMM7	translocase of outer mitochondrial membrane 7 homolog (yeast)	0.139154	Yes	No	No	No	No	No	No	No
64211	LHX5	LIM homeobox 5	0.139613	Yes	No	No	No	No	No	No	No
3764	KCNJ8	potassium inwardly-rectifying channel, subfamily J, member 8	0.139788	Yes	No	No	No	No	No	No	No
9474	ATG5	ATG5 autophagy related 5 homolog (S. cerevisiae)	0.141133	Yes	No	No	No	No	No	No	No
91151	TIGD7	tigger transposable element derived 7	0.14221	Yes	No	No	No	No	No	No	No
4276	MICA	MHC class I polypeptide-related sequence A	0.143214	Yes	No	No	No	No	No	No	No
5551	PRF1	perforin 1 (pore forming protein)	0.143497	Yes	No	No	No	No	No	No	No
112752	C14orf179	chromosome 14 open reading frame 179	0.143809	Yes	No	No	No	No	No	No	No
286514	MAGEB18	melanoma antigen family B, 18	0.144224	Yes	No	No	No	No	No	No	No
9992	KCNE2	potassium voltage-gated channel, Isk-related family, member 2	0.144546	Yes	No	No	No	No	No	No	No
388	RHOB	ras homolog gene family, member B	0.144642	Yes	No	No	No	No	No	No	No
79635	CDC121	coiled-coil domain containing 121	0.144722	No	No	No	No	No	Yes	No	No
5465	PPARA	peroxisome proliferator-activated receptor alpha	0.145665	Yes	No	No	No	No	No	No	No
3933	LCN1	lipocalin 1 (tear prealbumin)	0.145975	Yes	No	No	No	No	No	No	No
92291	CAPN13	calpain 13	0.146468	Yes	No	No	No	No	No	No	No
79685	SAP30L	SAP30-like	0.146894	No	Yes	No	No	No	Yes	No	No
4495	MT1G	metallothionein 1G	0.146903	Yes	No	No	No	No	No	No	No
3236	HOXD10	homeobox D10	0.147833	Yes	No	No	No	No	No	No	No
427	ASAH1	N-acylsphingosine amidohydrolase (acid ceramidase) 1	0.148196	Yes	No	No	No	No	No	No	No
80781	COL18A1	collagen, type XVIII, alpha 1	0.149648	Yes	No	No	No	No	No	No	No
84947	SERAC1	serine active site containing 1	0.149664	Yes	No	No	No	No	No	No	No
114899	C1QTNF3	C1q and tumor necrosis factor related protein 3	0.149865	Yes	Yes	No	No	No	No	No	No
977	CD151	CD151 molecule (Raph blood group)	0.150057	Yes	No	No	No	No	No	No	No
131601	GPR175	G protein-coupled receptor 175	0.150595	Yes	No	No	No	No	No	No	No
114881	OSBPL7	oxysterol binding protein-like 7	0.152123	Yes	No	No	No	No	No	No	No
55113	XKR8	XK, Kell blood group complex subunit-related family, member 8	0.15234	Yes	No	No	No	No	No	No	No
5644	PRSS1	protease, serine, 1 (trypsin 1)	0.153471	Yes	No	No	No	No	No	No	No
248	ALPI	alkaline phosphatase, intestinal	0.153816	Yes	No	No	No	No	No	No	No

4940	OAS3	2'-5'-oligoadenylate synthetase 3, 100kDa	0.154291	Yes	No	No	No	No	No	No	No
56896	DPYSL5	dihydropyrimidinase-like 5	0.15447	Yes	No	No	No	No	No	No	No
200132	TCTEX1D1	Tctex1 domain containing 1	0.15486	Yes	No	No	No	No	No	No	No
64231	MS4A6A	membrane-spanning 4-domains, subfamily A, member 6A	0.156303	Yes	No	No	No	No	No	No	No
2070	EYA4	eyes absent homolog 4 (Drosophila)	0.156576	Yes	No	No	No	No	No	No	No
8323	FZD6	frizzled homolog 6 (Drosophila)	0.156791	No	No	No	No	No	Yes	No	No
283337	ZNF740	zinc finger protein 740	0.156949	NA	No	No	No	No	Yes	No	No
56223	TRIM62	tripartite motif-containing 62	0.156962	No	No	No	No	No	Yes	No	No
9540	TP53I3	tumor protein p53 inducible protein 3	0.157305	Yes	No	No	No	No	No	No	No
57048	PLSCR3	phospholipid scramblase 3	0.158558	Yes	No	No	No	No	No	No	No
1207	CLNS1A	chloride channel, nucleotide-sensitive, 1A	0.160295	Yes	No	No	No	No	Yes	No	No
7561	ZNF14	zinc finger protein 14	0.161857	Yes	No	No	No	No	No	No	No
2848	GPR25	G protein-coupled receptor 25	0.163027	Yes	No	No	No	No	No	No	No
107	ADCY1	adenylylate cyclase 1 (brain)	0.163174	Yes	No	No	No	No	No	No	No
1545	CYP1B1	cytochrome P450, family 1, subfamily B, polypeptide 1	0.163187	Yes	No	No	No	No	No	No	No
63971	KIF13A	kinesin family member 13A	0.163476	Yes	Yes	No	No	No	No	No	No
9684	LRRC14	leucine rich repeat containing 14	0.164442	No	No	No	No	No	Yes	No	No
23028	AOF2	amine oxidase (flavin containing) domain 2	0.164806	No	Yes	No	No	No	Yes	No	No
66004	LYNX1	Lyb/neurotoxin 1	0.164806	No	Yes	No	No	No	No	No	No
4185	ADAM11	ADAM metalloproteinase domain 11	0.165517	Yes	No	No	No	No	No	No	No
1509	CTSD	cathepsin D	0.166414	Yes	No	No	No	No	No	No	No
7587	ZNF37A	zinc finger protein 37A	0.166669	Yes	No	No	No	No	No	No	No
56130	PCDH6	protocadherin beta 6	0.167366	Yes	No	No	No	No	No	No	No
3784	KCNQ1	potassium voltage-gated channel, KQT-like subfamily, member 1	0.167679	Yes	No	No	No	No	No	No	No
9002	F2RL3	coagulation factor II (thrombin) receptor-like 3	0.167895	Yes	No	No	No	No	No	No	No
27006	FGF22	fibroblast growth factor 22	0.16806	Yes	No	No	No	No	No	No	No
2738	GLI4	GLI-Kruppel family member GLI4	0.168978	Yes	No	No	No	No	No	No	No
339855	KY	kyphoscoliosis peptidase	0.169016	Yes	No	No	No	No	No	No	No
375704	C9orf165	chromosome 9 open reading frame 165	0.169613	Yes	No	No	No	No	No	No	No
10133	OPTN	optineurin	0.17003	Yes	No	No	No	No	No	No	No
6288	SAA1	serum amyloid A1	0.170112	Yes	No	No	No	No	No	No	No
63035	BCORL1	BCL6 co-repressor-like 1	0.171756	Yes	No	No	No	No	No	No	No
7866	IFRD2	interferon-related developmental regulator 2	0.172008	Yes	No	No	No	No	No	No	No
10351	ABCA8	ATP-binding cassette, sub-family A (ABC1), member 8	0.172991	Yes	No	No	No	No	No	No	No

50865	HEBP1	heme binding protein 1	0.174445	Yes	No	No	No	No	No	No	No
10881	ACTL7A	actin-like 7A	0.17498	Yes	No	No	No	No	No	No	No
7461	CLIP2	CAP-GLY domain containing linker protein 2	0.175243	Yes	No	No	No	No	No	No	No
80350	LPAL2	lipoprotein, Lp(a)-like 2	0.175515	Yes	No	No	No	No	No	No	No
857	CAV1	caveolin 1, caveolae protein, 22kDa	0.175527	Yes	No	No	No	No	No	No	No
22950	SLC4A1AP	solute carrier family 4 (anion exchanger), member 1, adaptor protein	0.175709	No	No	No	No	No	Yes	No	No
11213	IRAK3	interleukin-1 receptor-associated kinase 3	0.176107	Yes	No	No	No	No	No	No	No
83661	MS4A8B	membrane-spanning 4-domains, subfamily A, member 8B	0.176158	Yes	No	No	No	No	No	No	No
339324	ZNF260	zinc finger protein 260	0.178317	Yes	No	No	No	No	No	No	No
79895	ATP8B4	ATPase, class I, type 8B, member 4	0.179801	Yes	No	No	No	No	No	No	No
2208	FCER2	Fc fragment of IgE, low affinity II, receptor for (CD23)	0.180076	Yes	No	No	No	No	No	No	No
6652	SORD	sorbitol dehydrogenase	0.180673	Yes	No	No	No	No	No	No	No
5900	RALGDS	ral guanine nucleotide dissociation stimulator	0.180753	Yes	No	No	No	No	No	No	No
20	ABCA2	ATP-binding cassette, sub-family A (ABC1), member 2	0.180795	Yes	No	No	No	No	No	No	No
54848	FLJ20184	hypothetical protein FLJ20184	0.181363	No	Yes	No	No	No	No	No	No
89874	SLC25A21	solute carrier family 25 (mitochondrial oxodicarboxylate carrier), member 21	0.181791	Yes	Yes	No	No	No	No	No	No
23373	CRTC1	CREB regulated transcription coactivator 1	0.182905	Yes	No	No	No	No	No	No	No
22808	MRAS	muscle RAS oncogene homolog	0.184112	No	No	No	No	No	Yes	No	No
7148	TNXB	tenascin XB	0.184406	Yes	No	No	No	No	No	No	No
7733	ZNF180	zinc finger protein 180	0.184531	Yes	No	No	No	No	No	No	No
8038	ADAM12	ADAM metalloproteinase domain 12 (meltrin alpha)	0.185275	Yes	No	No	No	No	No	No	No
53343	NUDT9	nudix (nucleoside diphosphate linked moiety X)-type motif 9	0.187092	Yes	No	No	No	No	Yes	No	No
148014	TTC9B	tetratricopeptide repeat domain 9B	0.187185	Yes	No	No	No	No	No	No	No
1288	COL4A6	collagen, type IV, alpha 6	0.187186	Yes	No	No	No	No	No	No	No
10623	POLR3C	polymerase (RNA) III (DNA directed) polypeptide C (62kD)	0.187916	No	No	No	No	No	Yes	No	No
2678	GGT1	gamma-glutamyltransferase 1	0.188428	Yes	No	No	No	No	No	No	No
3385	ICAM3	intercellular adhesion molecule 3	0.190065	Yes	No	No	No	No	No	No	No
65266	WNK4	WNK lysine deficient protein kinase 4	0.191424	Yes	No	No	No	No	No	No	No
8519	IFITM1	interferon induced transmembrane protein 1 (9-27)	0.192049	Yes	No	No	No	No	No	No	No
80168	MOGAT2	monoacylglycerol O-acyltransferase 2	0.195121	Yes	No	No	No	No	No	No	No
81573	ANKRD13C	ankyrin repeat domain 13C	0.195516	Yes	No	No	No	No	No	No	No
55214	LEPREL1	leprecan-like 1	0.195817	Yes	No	No	No	No	No	No	No
256281	NUDT14	nudix (nucleoside diphosphate linked moiety X)-type motif 14	0.196205	Yes	No	No	No	No	No	No	No
9223	MAG11	membrane associated guanylate kinase, WW and PDZ domain containing 1	0.196227	Yes	No	No	No	No	No	No	No

353514	LILRA5	leukocyte immunoglobulin-like receptor, subfamily A (with TM domain), member 5	0.197744	Yes	No	No	No	No	No	No	No
29966	STRN3	striatin, calmodulin binding protein 3	0.197944	No	No	No	No	No	Yes	No	No
1397	CRIP2	cysteine-rich protein 2	0.198217	Yes	No	No	No	No	No	No	No
7746	ZNF193	zinc finger protein 193	0.198677	Yes	No	No	No	No	No	No	No
843	CASP10	caspase 10, apoptosis-related cysteine peptidase	0.199457	Yes	Yes	No	No	No	No	No	No
6242	RTKN	hrotekin	0.199481	Yes	No	No	No	No	No	No	No
388969	LOC388969	hypothetical LOC388969	0.199983	Yes	No	No	No	No	No	No	No
2791	NGG11	guanine nucleotide binding protein (G protein), gamma 11	0.200299	Yes	No	No	No	No	No	No	No
781	CACNA2D1	calcium channel, voltage-dependent, alpha 2/delta subunit 1	0.200307	Yes	No	No	No	No	No	No	No
822	CAPG	capping protein (actin filament), gelsolin-like	0.201258	Yes	No	No	No	No	No	No	No
56143	PCDH45	protocadherin alpha 5	0.202592	Yes	No	No	No	No	No	No	No
2051	EPHB6	EPH receptor B6	0.204149	Yes	No	No	No	No	No	No	No
10999	SLC27A4	solute carrier family 27 (fatty acid transporter), member 4	0.204628	No	No	No	No	No	Yes	No	No
6494	SIPA1	signal-induced proliferation-associated gene 1	0.206247	Yes	No	No	No	No	No	No	No
8731	RNMT	RNA (guanine-7) methyltransferase	0.206247	Yes	No	No	No	No	No	No	No
79089	TMUB2	transmembrane and ubiquitin-like domain containing 2	0.206341	Yes	No	No	No	No	No	No	No
10076	PTPRU	protein tyrosine phosphatase, receptor type, U	0.206649	No	Yes	No	No	No	No	No	No
80205	CHD9	chromodomain helicase DNA binding protein 9	0.206842	Yes	No	No	No	No	No	No	No
11107	PRDM5	PR domain containing 5	0.207479	Yes	No	No	No	No	No	No	No
8740	TNFSF14	tumor necrosis factor (ligand) superfamily, member 14	0.20869	Yes	No	No	No	No	No	No	No
116238	TLCD1	TLC domain containing 1	0.210816	No	No	No	No	No	Yes	No	No
55954	ZMAT5	zinc finger, matrix type 5	0.211171	No	No	No	No	No	Yes	No	No
3601	IL15RA	interleukin 15 receptor, alpha	0.212716	Yes	No	No	No	No	No	No	No
23466	CBX6	chromobox homolog 6	0.212799	Yes	Yes	No	No	No	No	No	No
4223	MEOX2	mesenchyme homeobox 2	0.21302	Yes	No	No	No	No	No	No	No
95	ACY1	aminoacylase 1	0.213755	Yes	No	No	No	No	No	No	No
10007	GNPDA1	glucosamine-6-phosphate deaminase 1	0.214507	Yes	No	No	No	No	No	No	No
23247	KIAA0556	KIAA0556	0.214808	Yes	No	No	No	No	No	No	No
7627	ZNF75A	zinc finger protein 75a	0.215401	Yes	No	No	No	No	No	No	No
158405	KIAA1958	KIAA1958	0.2161	NA*	Yes	No	No	No	No	No	No
9687	GREB1	GREB1 protein	0.216601	Yes	No	No	No	No	No	No	No
93210	PERLD1	per1-like domain containing 1	0.216889	Yes	No	No	No	No	No	No	No
594855	CPLX3	complexin 3	0.218058	Yes	No	No	No	No	No	No	No
147372	CCBE1	collagen and calcium binding EGF domains 1	0.21824	Yes	No	No	No	No	No	No	No

2444	FRK	fyn-related kinase	0.219361	Yes	No	No	No	No	No	No	No
26157	GIMAP2	GTPase, IMAP family member 2	0.219649	Yes	No	No	No	No	No	No	No
79865	TREML2	triggering receptor expressed on myeloid cells-like 2	0.220444	Yes	No	No	No	No	No	No	No
283208	P4HA3	procollagen-proline, 2-oxoglutarate 4-dioxygenase (proline 4-hydroxylase), alpha polypeptide III	0.220559	Yes	No	No	No	No	No	No	No
10002	NR2E3	nuclear receptor subfamily 2, group E, member 3	0.220685	Yes	No	No	No	No	No	No	No
146198	ZFP90	zinc finger protein 90 homolog (mouse)	0.222021	Yes	No	No	No	No	No	No	No
79155	TNIP2	TNFAIP3 interacting protein 2	0.222509	Yes	No	No	No	No	No	No	No
6581	SLC22A3	solute carrier family 22 (extraneuronal monoamine transporter), member 3	0.223113	Yes	No	No	No	No	No	No	No
8685	MARCO	macrophage receptor with collagenous structure	0.224454	Yes	No	No	No	No	No	No	No
50604	IL20	interleukin 20	0.225001	Yes	No	No	No	No	No	No	No
3611	ILK	integrin-linked kinase	0.226337	No	No	No	No	No	Yes	No	No
10100	TSPAN2	tetraspanin 2	0.226693	Yes	No	No	No	No	No	No	No
4939	OAS2	2'-5'-oligoadenylate synthetase 2, 69/71kDa	0.227709	Yes	Yes	No	No	No	No	No	No
63923	TNN	tenascin N	0.228486	Yes	No	No	No	No	No	No	No
115361	GBP4	guanylate binding protein 4	0.228603	Yes	No	No	No	No	No	No	No
7771	ZNF228	zinc finger protein 228	0.228609	Yes	No	No	No	No	No	No	No
1839	HBEGF	heparin-binding EGF-like growth factor	0.229863	Yes	No	No	No	No	No	No	No
200316	APOBEC3F	apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3F	0.230037	Yes	No	No	No	No	No	No	No
6103	RPGR	retinitis pigmentosa GTPase regulator	0.231888	Yes	No	No	No	No	No	No	No
60626	RIC8A	resistance to inhibitors of cholinesterase 8 homolog A (C. elegans)	0.232643	No	No	No	No	No	Yes	No	No
84179	MFSD7	major facilitator superfamily domain containing 7	0.233984	Yes	No	No	No	No	No	No	No
54434	SSH1	slingshot homolog 1 (Drosophila)	0.234661	Yes	No	No	No	No	No	No	No
10807	SDCCAG3	serologically defined colon cancer antigen 3	0.235091	Yes	No	No	No	No	No	No	No
285268	ZNF621	zinc finger protein 621	0.236186	Yes	No	No	No	No	No	No	No
64838	FNDC4	fibronectin type III domain containing 4	0.23706	Yes	No	No	No	No	No	No	No
10404	PGCP	plasma glutamate carboxypeptidase	0.23785	Yes	No	No	No	No	No	No	No
2747	GLUD2	glutamate dehydrogenase 2	0.237987	Yes	No	No	No	No	No	No	No
279	AMY2A	amylase, alpha 2A (pancreatic)	0.238406	Yes	No	No	No	No	No	No	No
159195	USP54	ubiquitin specific peptidase 54	0.239194	Yes	No	No	No	No	No	No	No
64180	DPEP3	dipeptidase 3	0.239416	Yes	No	No	No	No	No	No	No
10640	EXOC5	exocyst complex component 5	0.239792	No	No	No	No	No	Yes	No	No
6846	XCL2	chemokine (C motif) ligand 2	0.240274	Yes	No	No	No	No	No	No	No
23241	PACS2	phosphofurin acidic cluster sorting protein 2	0.240471	Yes	No	No	No	No	No	No	No
5903	RANBP2	RAN binding protein 2	0.240628	No	Yes	No	No	No	No	No	No

8425	LTP4	latent transforming growth factor beta binding protein 4	0.24094	Yes	No	No	No	No	No	No	No
9066	SYT7	synaptotagmin VII	0.24142	Yes	No	No	No	No	No	No	No
284040	CDRT4	CMT1A duplicated region transcript 4	0.241726	Yes	No	No	No	No	No	No	No
4681	NBL1	neuroblastoma, suppression of tumorigenicity 1	0.243595	Yes	No	No	No	No	No	No	No
9841	ZBTB24	zinc finger and BTB domain containing 24	0.246225	Yes	No	No	No	No	No	No	No
64902	AGXT2	alanine-glyoxylate aminotransferase 2	0.247713	Yes	No	No	No	No	No	No	No
11226	GALNT6	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 6 (GalNAc-T6)	0.248186	Yes	No	No	No	No	No	No	No
54828	BCAS3	breast carcinoma amplified sequence 3	0.250217	Yes	Yes	No	No	No	No	No	No
5883	RAD9A	RAD9 homolog A (S. pombe)	0.250625	Yes	No	No	No	No	No	No	No
5346	PLIN	perilipin	0.250695	Yes	No	No	No	No	No	No	No
57724	KIAA1632	KIAA1632	0.250702	Yes	No	No	No	No	No	No	No
3048	HBG2	hemoglobin, gamma G	0.253064	Yes	No	No	No	No	No	No	No
84224	NBPF3	neuroblastoma breakpoint family, member 3	0.254062	Yes	No	No	No	No	No	No	No
2719	GPC3	glypican 3	0.254102	Yes	No	No	No	No	No	No	No
57610	RANBP10	RAN binding protein 10	0.254676	Yes	No	No	No	No	No	No	No
23405	DICER1	dicer 1, ribonuclease type III	0.25513	Yes	No	No	No	No	No	No	No
90423	ATP6V1E2	ATPase, H+ transporting, lysosomal 31kDa, V1 subunit E2	0.255227	Yes	No	No	No	No	No	No	No
157378	TMEM65	transmembrane protein 65	0.256062	Yes	Yes	No	No	No	No	No	No
2686	GGT7	gamma-glutamyltransferase 7	0.256208	Yes	No	No	No	No	No	No	No
80036	TRPM3	transient receptor potential cation channel, subfamily M, member 3	0.25651	Yes	No	No	No	No	No	No	No
3851	KRT4	keratin 4	0.256741	Yes	No	No	No	No	No	No	No
83985	SPNS1	spinster homolog 1 (Drosophila)	0.257961	No	No	No	No	No	Yes	No	No
8681	PLA2G4B	hypothetical protein LOC8681	0.25804	Yes	No	No	No	No	No	No	No
3762	KCNJ5	potassium inwardly-rectifying channel, subfamily J, member 5	0.259663	Yes	No	No	No	No	No	No	No
441476	LOC441476	hypothetical protein LOC441476	0.259859	Yes	No	No	No	No	No	No	No
26952	SMR3A	submaxillary gland androgen regulated protein 3A	0.260364	Yes	No	No	No	No	No	No	No
6865	TACR2	tachykinin receptor 2	0.26147	Yes	No	No	No	No	No	No	No
56145	PCDHA3	protocadherin alpha 3	0.261526	Yes	No	No	No	No	No	No	No
10634	GAS2L1	growth arrest-specific 2 like 1	0.263384	Yes	No	No	No	No	No	No	No
6579	SLCO1A2	solute carrier organic anion transporter family, member 1A2	0.265876	Yes	No	No	No	No	No	No	No
284013	VMO1	vitelline membrane outer layer 1 homolog (chicken)	0.266065	Yes	No	No	No	No	No	No	No
79443	FYCO1	FYVE and coiled-coil domain containing 1	0.267048	Yes	No	No	No	No	No	No	No
4332	MNDA	myeloid cell nuclear differentiation antigen	0.267302	Yes	No	No	No	No	No	No	No
79570	NKAIN1	Na+/K+ transporting ATPase interacting 1	0.269065	Yes	No	No	No	No	No	No	No

9333	TGM5	transglutaminase 5	0.269375	Yes	No	No	No	No	No	No
1356	CP	ceruloplasmin (ferroxidase)	0.269578	Yes	No	No	No	No	No	No
136371	ASB10	ankyrin repeat and SOCS box-containing 10	0.270239	Yes	No	No	No	No	No	No
2692	GHRHR	growth hormone releasing hormone receptor	0.270816	Yes	No	No	No	No	No	No
1978	EIF4EBP1	eukaryotic translation initiation factor 4E binding protein 1	0.272543	Yes	No	No	No	No	No	No
57829	ZP4	zona pellucida glycoprotein 4	0.273391	Yes	No	No	No	No	No	No
5799	PTPRN2	protein tyrosine phosphatase, receptor type, N polypeptide 2	0.27438	Yes	No	No	No	No	No	No
23294	ANKS1A	ankyrin repeat and sterile alpha motif domain containing 1A	0.274553	No	No	No	No	No	Yes	No
84918	LRP11	low density lipoprotein receptor-related protein 11	0.274638	Yes	No	No	No	No	No	No
8711	TNK1	tyrosine kinase, non-receptor, 1	0.275178	Yes	No	No	No	No	No	No
55231	CCDC87	coiled-coil domain containing 87	0.277587	No	No	No	No	No	Yes	No
5463	POU6F1	POU class 6 homeobox 1	0.28077	Yes	No	No	No	No	No	No
79819	WDR78	WD repeat domain 78	0.282324	No	Yes	No	No	No	No	No
26515	FXC1	fracture callus 1 homolog (rat)	0.282915	Yes	No	No	No	No	No	No
113179	ADAT3	adenosine deaminase, tRNA-specific 3, TAD3 homolog (S. cerevisiae)	0.283796	Yes	No	No	No	No	No	No
9242	MSC	musculin (activated B-cell factor-1)	0.283967	No	Yes	No	No	No	No	No
2245	FGD1	FYVE, RhoGEF and PH domain containing 1 (faciogenital dysplasia)	0.286694	Yes	No	No	No	No	No	No
51019	CCDC53	coiled-coil domain containing 53	0.286727	No	No	No	No	No	Yes	No
64772	FLJ21865	endo-beta-N-acetylglicosaminidase	0.288735	Yes	No	No	No	No	No	No
79625	C4orf31	chromosome 4 open reading frame 31	0.288941	No	Yes	No	No	No	No	No
284058	KIAA1267	KIAA1267	0.288983	No	Yes	No	No	No	Yes	No
818	CAMK2G	calcium/calmodulin-dependent protein kinase (CaM kinase) II gamma	0.289042	No	No	No	No	No	Yes	No
359845	FAM101B	family with sequence similarity 101, member B	0.289113	Yes	No	No	No	No	No	No
9283	GPR37L1	G protein-coupled receptor 37 like 1	0.289819	Yes	No	No	No	No	No	No
8553	BHLHB2	basic helix-loop-helix domain containing, class B, 2	0.290675	Yes	No	No	No	No	No	No
2346	FOLH1	folate hydrolase (prostate-specific membrane antigen) 1	0.290776	Yes	No	No	No	No	No	No
143630	UBQLNL	ubiquilin-like	0.291127	Yes	No	No	No	No	No	No
6901	TAZ	tafazzin (cardiomyopathy, dilated 3A (X-linked); endocardial fibroelastosis 2; Barth syndrome)	0.291744	Yes	No	No	No	No	No	No
81693	AMN	amionless homolog (mouse)	0.291892	Yes	No	No	No	No	No	No
80790	CMP	c-Maf-inducing protein	0.292792	Yes	No	No	No	No	No	No
139411	PTCHD1	patched domain containing 1	0.29456	Yes	No	No	No	No	No	No
7701	ZNF142	zinc finger protein 142	0.294742	No	No	No	No	No	Yes	Yes
96764	TGS1	trimethylguanosine synthase homolog (S. cerevisiae)	0.297434	No	No	No	No	No	Yes	No
11098	PRSS23	protease, serine, 23	0.29755	Yes	No	No	No	No	No	No

5442	POLRMT	polymerase (RNA) mitochondrial (DNA directed)	0.297563	Yes	No	No	No	No	No	No
9457	FHL5	four and a half LIM domains 5	0.29817	Yes	No	No	No	No	No	No
6751	SSTR1	somatostatin receptor 1	0.299046	Yes	No	No	No	No	No	No
9092	SART1	squamous cell carcinoma antigen recognized by T cells	0.299411	No	Yes	No	No	No	No	No
40073	FLJ40142	FLJ40142 protein	0.299802	Yes	No	No	No	No	No	No
4118	MAL	mal, T-cell differentiation protein	0.299842	Yes	No	No	No	No	No	No
54893	MTMR10	myotubularin related protein 10	0.300736	Yes	No	No	No	No	No	No
91869	RFT1	RFT1 homolog (S. cerevisiae)	0.301675	Yes	No	No	No	No	No	No
23683	PRKD3	protein kinase D3	0.302348	No	Yes	No	No	No	No	No
55701	FLJ10357	hypothetical protein FLJ10357	0.302381	Yes	No	No	No	No	No	No
2074	ERCC6	excision repair cross-complementing rodent repair deficiency, complementation group 6	0.302639	No	No	No	No	No	Yes	No
65987	KCTD14	potassium channel tetramerisation domain containing 14	0.304755	Yes	No	No	No	No	No	No
170575	GIMAP1	GTPase, IMAP family member 1	0.307054	Yes	No	No	No	No	No	No
815	CAMK2A	calcium/calmodulin-dependent protein kinase (CaM kinase) II alpha	0.308346	Yes	No	No	No	No	No	No
363	AQP6	aquaporin 6, kidney specific	0.309098	Yes	No	No	No	No	No	No
1236	CCR7	chemokine (C-C motif) receptor 7	0.309156	Yes	Yes	No	No	No	No	No
3990	LIPC	lipase, hepatic	0.309461	Yes	No	No	No	No	No	No
3849	KRT2	keratin 2 (epidermal ichthyosis bullosa of Siemens)	0.310469	Yes	No	No	No	No	No	No
79673	ZNF329	zinc finger protein 329	0.314961	Yes	No	No	No	No	No	No
8242	JARID1C	jumonji, AT rich interactive domain 1C	0.315398	Yes	No	No	No	No	No	No
10647	SCGB1D2	secretoglobin, family 1D, member 2	0.31575	Yes	No	No	No	No	No	No
79925	SPEF2	sperm flagellar 2	0.315808	Yes	No	No	No	No	No	No
84174	SLA2	Src-like-adaptor 2	0.316274	Yes	No	No	No	No	No	No
2868	GRK4	G protein-coupled receptor kinase 4	0.316592	No	No	No	No	No	Yes	No
617	BCS1L	BCS1-like (yeast)	0.316921	No	No	No	No	No	Yes	No
51185	CRBN	cereblon	0.317907	Yes	No	No	No	No	No	No
51150	SDF4	stromal cell derived factor 4	0.318904	Yes	No	No	No	No	No	No
79899	FLJ14213	protor-2	0.319608	Yes	No	No	No	No	No	No
286187	LRRRC67	leucine rich repeat containing 67	0.323017	NA	No	No	No	No	Yes	No
249	ALPL	alkaline phosphatase, liver/bone/kidney	0.323509	Yes	No	No	No	No	No	No
55554	KLK15	kallikrein-related peptidase 15	0.324808	Yes	No	No	No	No	No	No
116085	SLC22A12	solute carrier family 22 (organic anion/urate transporter), member 12	0.325411	Yes	No	No	No	No	No	No
131578	LRRRC15	leucine rich repeat containing 15	0.325989	Yes	No	No	No	No	No	No
29800	ZDHHC1	zinc finger, DHHC-type containing 1	0.326086	Yes	No	No	No	No	No	No

157922	CAMSAP1	calmodulin regulated spectrin-associated protein 1	0.326913	Yes	No	No	No	No	No	No	No
11259	FILIP1L	filamin A interacting protein 1-like	0.327358	Yes	No	No	No	No	No	No	No
283375	SLC39A5	solute carrier family 39 (metal ion transporter), member 5	0.328227	Yes	No	No	No	No	No	No	No
25836	NIPBL	Nipped-B homolog (Drosophila)	0.328664	No	No	No	No	No	Yes	Yes	Yes
26476	OR10J1	olfactory receptor, family 10, subfamily J, member 1	0.329146	Yes	No	No	No	No	No	No	No
8633	UNC5C	unc-5 homolog C (C. elegans)	0.330462	Yes	No	No	No	No	No	No	No
5199	CFP	complement factor properdin	0.330537	Yes	No	No	No	No	No	No	No
6124	RPL4	ribosomal protein L4	0.330553	Yes	Yes	No	No	No	No	No	No
4694	NDUFA1	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 1, 7.5kDa	0.330746	No	No	No	No	No	Yes	Yes	No
55735	DNAJC11	DnaJ (Hsp40) homolog, subfamily C, member 11	0.331448	Yes	No	No	No	No	No	No	No
92595	ZNF764	zinc finger protein 764	0.333117	Yes	No	No	No	No	No	No	No
2528	FUT6	fucosyltransferase 6 (alpha (1,3) fucosyltransferase)	0.333574	Yes	Yes	No	No	No	No	No	No
114049	WBSCR22	Williams Beuren syndrome chromosome region 22	0.334462	Yes	No	No	No	No	No	No	No
3176	HNMT	histamine N-methyltransferase	0.334633	Yes	No	No	No	No	No	No	No
51272	BET1L	blocked early in transport 1 homolog (S. cerevisiae)-like	0.334638	Yes	No	No	No	No	Yes	Yes	No
57563	KLHL8	kelch-like 8 (Drosophila)	0.335481	Yes	No	No	No	No	No	No	No
10747	MASP2	mannan-binding lectin serine peptidase 2	0.335615	Yes	No	No	No	No	No	No	No
7087	ICAM5	intercellular adhesion molecule 5, telencephalin	0.335866	No	No	No	No	No	Yes	Yes	No
115273	RAB42	RAB42, member RAS oncogene family	0.336818	Yes	No	No	No	No	No	No	No
4061	LY6E	lymphocyte antigen 6 complex, locus E	0.337822	Yes	Yes	No	No	No	No	No	No
9290	GPR55	G protein-coupled receptor 55	0.338693	Yes	No	No	No	No	No	No	No
29888	STRN4	striatin, calmodulin binding protein 4	0.338875	Yes	No	No	No	No	No	No	No
22927	HABP4	hyaluronan binding protein 4	0.340691	Yes	No	No	No	No	No	No	No
874	CBR3	carbonyl reductase 3	0.341355	Yes	No	No	No	No	No	No	No
54575	UGT1A10	UDP glucuronosyltransferase 1 family, polypeptide A10	0.342448	Yes	No	No	No	No	No	No	No
55622	TTC27	tetraatricopeptide repeat domain 27	0.343411	Yes	No	No	No	No	No	No	No
6882	TAF11	TAF11 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 28kDa	0.344306	No	No	No	No	No	Yes	Yes	No
9834	KIAA0125	KIAA0125	0.344945	Yes	No	No	No	No	No	No	No
56953	NT5M	5',3'-nucleotidase, mitochondrial	0.349333	Yes	No	No	No	No	No	No	No
1803	DPP4	dipeptidyl-peptidase 4 (CD26, adenosine deaminase complexing protein 2)	0.349536	Yes	No	No	No	No	No	No	No
54577	UGT1A7	UDP glucuronosyltransferase 1 family, polypeptide A7	0.350125	Yes	No	No	No	No	No	No	No
148932	MOBK12C	MOB1, Mps One Binder kinase activator-like 2C (yeast)	0.350921	Yes	No	No	No	No	No	No	No
83641	FAM107B	family with sequence similarity 107, member B	0.351254	No	Yes	No	No	No	No	No	No
9053	MAP7	microtubule-associated protein 7	0.351329	Yes	No	No	No	No	No	No	No

408	ARRB1	arrestin, beta 1	0.35299	Yes	No	No	No	No	No	No	No
57582	KCNT1	potassium channel, subfamily T, member 1	0.353456	Yes	No	No	No	No	No	No	No
7786	MAP3K12	mitogen-activated protein kinase kinase kinase 12	0.35397	Yes	No	No	No	No	No	No	No
81855	SFXN3	sideroflexin 3	0.356207	Yes	No	No	No	No	Yes	Yes	Yes
10514	MYBBP1A	MYB binding protein (P160) 1a	0.357184	Yes	No	No	No	No	No	No	No
27099	C7orf54	chromosome 7 open reading frame 54	0.358775	Yes	No	No	No	No	No	No	No
54360	CYTL1	cytokine-like 1	0.359653	Yes	No	No	No	No	No	No	No
10384	BTN3A3	butyrophilin, subfamily 3, member A3	0.360126	Yes	No	No	No	No	No	No	No
671	BPI	bactericidal/permeability-increasing protein	0.360281	Yes	No	No	No	No	No	No	No
90957	DHX57	DEAH (Asp-Glu-Ala-Asp/His) box polypeptide 57	0.361211	Yes	No	No	No	No	No	No	No
6351	CCL4	chemokine (C-C motif) ligand 4	0.361723	Yes	No	No	No	No	No	No	No
63897	HEATR6	HEAT repeat containing 6	0.363212	Yes	Yes	No	No	No	No	No	No
23017	FAIM2	Fas apoptotic inhibitory molecule 2	0.363214	Yes	No	No	No	No	No	No	No
81932	HDHD3	haloacid dehalogenase-like hydrolase domain containing 3	0.364393	Yes	No	No	No	No	No	No	No
114548	NLRP3	NLR family, pyrin domain containing 3	0.365205	Yes	No	No	No	No	No	No	No
91355	LRPSL	low density lipoprotein receptor-related protein 5-like	0.366367	Yes	No	No	No	No	No	No	No
84677	DSCR8	Down syndrome critical region gene 8	0.366921	Yes	No	No	No	No	No	No	No
55466	DNAJA4	DnaJ (Hsp40) homolog, subfamily A, member 4	0.368536	Yes	No	No	No	No	No	No	No
55667	ZNF692	zinc finger protein 692	0.370939	Yes	No	No	No	No	Yes	No	No
28348	FLJ37464	hypothetical protein FLJ37464	0.370957	Yes	No	No	No	No	No	No	No
777	CACNA1E	calcium channel, voltage-dependent, R type, alpha 1E subunit	0.371099	Yes	No	No	No	No	No	No	No
10439	OLFM1	olfactomedin 1	0.371173	Yes	No	No	No	No	No	No	No
148266	ZNF569	zinc finger protein 569	0.376674	No	No	No	No	No	Yes	No	No
2635	GBP3	guanylate binding protein 3	0.378072	Yes	No	No	No	No	No	No	No
4054	LTBP3	latent transforming growth factor beta binding protein 3	0.38051	Yes	No	No	No	No	No	No	No
23544	SEZ6L	seizure related 6 homolog (mouse)-like	0.381313	Yes	No	No	No	No	No	No	No
7035	TFPI	tissue factor pathway inhibitor (lipoprotein-associated coagulation inhibitor)	0.381856	Yes	No	No	No	No	No	No	No
9099	USP2	ubiquitin specific peptidase 2	0.382607	Yes	No	No	No	No	No	No	No
57605	PITPNM2	phosphatidylinositol transfer protein, membrane-associated 2	0.383014	Yes	No	No	No	No	No	No	No
79983	POF1B	premature ovarian failure, 1B	0.38649	Yes	No	No	No	No	No	No	No
8764	TNFRSF14	tumor necrosis factor receptor superfamily, member 14 (herpesvirus entry mediator)	0.387643	Yes	No	No	No	No	No	No	No
1903	S1PR3	sphingosine-1-phosphate receptor 3	0.38785	Yes	No	No	No	No	No	No	No
148808	MFSD4	major facilitator superfamily domain containing 4	0.388216	Yes	No	No	No	No	No	No	No
90480	GADD45GIP1	growth arrest and DNA-damage-inducible, gamma interacting protein 1	0.38865	Yes	No	No	No	No	No	No	No

6804	STX1A	syntrophin 1A (brain)	0.390147	Yes	No	No	No	No	No	No	No
3750	KCND1	potassium voltage-gated channel, Shal-related subfamily, member 1	0.390149	Yes	No	No	No	No	No	No	No
8434	RECK	reversion-inducing-cysteine-rich protein with kazal motifs	0.390786	Yes	No	No	No	No	No	No	No
5660	PSAP	prosaposin (variant Gaucher disease and variant metachromatic leukodystrophy)	0.391361	Yes	No	No	No	No	No	No	No
6330	SCN4B	sodium channel, voltage-gated, type IV, beta	0.392926	Yes	No	No	No	No	No	No	No
23065	KIAA0090	KIAA0090	0.393883	Yes	No	No	No	No	No	No	No
92400	RBM18	RNA binding motif protein 18	0.394322	Yes	Yes	No	No	No	Yes	No	No
23641	LDOC1	leucine zipper, down-regulated in cancer 1	0.395295	Yes	No	No	No	No	No	No	No
23024	PDZRN3	PDZ domain containing RING finger 3	0.396608	Yes	No	No	No	No	No	No	No
149076	ZNF362	zinc finger protein 362	0.397025	Yes	No	No	No	No	No	No	No
90592	ZNF700	zinc finger protein 700	0.402445	Yes	No	No	No	No	Yes	No	No
4878	NPPA	natriuretic peptide precursor A	0.40307	Yes	No	No	No	No	No	No	No
374654	KIF7	kinesin family member 7	0.40366	Yes	No	No	No	No	No	No	No
373863	DND1	dead end homolog 1 (zebrafish)	0.403825	Yes	No	No	No	No	No	No	No
91461	LOC91461	hypothetical protein BC007901	0.405047	Yes	No	No	No	No	No	No	No
6568	SLC17A1	solute carrier family 17 (sodium phosphate), member 1	0.407009	Yes	No	No	No	No	No	No	No
54477	PLEKHA5	pleckstrin homology domain containing, family A member 5	0.409522	Yes	No	No	No	No	No	No	No
9095	TBX19	T-box 19	0.409794	Yes	No	No	No	No	No	No	No
9829	DNAJC6	DnaJ (Hsp40) homolog, subfamily C, member 6	0.413301	Yes	No	No	No	No	No	No	No
57578	KIAA1409	KIAA1409	0.418146	No	No	No	No	No	Yes	No	No
9132	KCNQ4	potassium voltage-gated channel, KQT-like subfamily, member 4	0.419491	No	Yes	No	No	No	No	No	No
6476	SI	sucrase-isomaltase (alpha-glucosidase)	0.42379	Yes	No	No	No	No	No	No	No
10875	FGL2	fibrinogen-like 2	0.424994	Yes	No	No	No	No	No	No	No
253782	LASS6	LAG1 homolog, ceramide synthase 6	0.425201	Yes	Yes	No	No	No	No	No	No
9986	RCE1	RCE1 homolog, prenyl protein peptidase (<i>S. cerevisiae</i>)	0.426193	Yes	No	No	No	No	No	No	No
54676	GTPBP2	GTP binding protein 2	0.428628	No	No	No	No	No	Yes	No	No
3074	HEXB	hexosaminidase B (beta polypeptide)	0.428674	Yes	No	No	No	No	No	No	No
1120	CHKB	choline kinase beta	0.430056	Yes	No	No	No	No	No	No	No
3929	LBP	lipopolysaccharide binding protein	0.430593	Yes	No	No	No	No	No	No	No
55697	VAC14	Vac14 homolog (<i>S. cerevisiae</i>)	0.430628	Yes	No	No	No	No	No	No	No
3654	IRAK1	interleukin-1 receptor-associated kinase 1	0.430711	Yes	No	No	No	No	No	No	No
3904	LAIR2	leukocyte-associated immunoglobulin-like receptor 2	0.432247	Yes	No	No	No	No	No	No	No
79132	DHX58	DEXH (Asp-Glu-X-His) box polypeptide 58	0.436571	Yes	No	No	No	No	No	No	No
23324	MAN2B2	mannosidase, alpha, class 2B, member 2	0.440182	Yes	No	No	No	No	No	No	No

5817	PVR	poliovirus receptor	0.443876	Yes	No	No	No	No	No	No	No
5284	PIGR	polymeric immunoglobulin receptor	0.44472	Yes	No	No	No	No	No	No	No
5313	PKLR	pyruvate kinase, liver and RBC	0.445009	Yes	No	No	No	No	No	No	No
10000	AKT3	v-akt murine thymoma viral oncogene homolog 3 (protein kinase B, gamma)	0.445905	Yes	No	No	No	No	No	No	No
89782	LMLN	leishmanolysin-like (metallopeptidase M8 family)	0.446012	Yes	No	No	No	No	No	No	No
9545	RAB3D	RAB3D, member RAS oncogene family	0.447374	Yes	No	No	No	No	No	No	No
79637	ARMC7	armadillo repeat containing 7	0.448649	Yes	No	No	No	No	No	No	No
5618	PRLR	prolactin receptor	0.451076	Yes	No	No	No	No	No	No	No
9880	ZBTB39	zinc finger and BTB domain containing 39	0.451345	Yes	No	No	No	No	No	No	No
166012	CHST13	carbohydrate (chondroitin 4) sulfotransferase 13	0.452808	Yes	No	No	No	No	No	No	No
26538	OR10H2	olfactory receptor, family 10, subfamily H, member 2	0.453458	Yes	No	No	No	No	No	No	No
80328	ULBP2	UL16 binding protein 2	0.453694	Yes	No	No	No	No	No	No	No
496	ATP4B	ATPase, H+/K+ exchanging, beta polypeptide	0.458019	Yes	No	No	No	No	No	No	No
132946	ARL9	ADP-ribosylation factor-like 9	0.458776	Yes	No	No	No	No	No	No	No
2217	FCGRT	Fc fragment of IgG, receptor, transporter, alpha	0.465641	Yes	No	No	No	No	No	No	No
22861	NLRP1	NLR family, pyrin domain containing 1	0.466211	Yes	No	No	No	No	No	No	No
4056	LTC4S	leukotriene C4 synthase	0.470174	Yes	No	No	No	No	No	No	No
7083	TK1	thymidine kinase 1, soluble	0.473671	No	Yes	No	No	No	No	No	No
9727	RAB11FIP3	RAB11 family interacting protein 3 (class II)	0.474237	Yes	No	No	No	No	No	No	No
57823	SLAMF7	SLAM family member 7	0.474842	Yes	No	No	No	No	No	No	No
1471	CST3	cystatin C	0.47661	Yes	No	No	No	No	No	No	No
79799	UGT2A3	UDP glucuronosyltransferase 2 family, polypeptide A3	0.478107	Yes	No	No	No	No	No	No	No
84166	NLRC5	NLR family, CARD domain containing 5	0.478989	Yes	No	No	No	No	No	No	No
216	ALDH1A1	aldehyde dehydrogenase 1 family, member A1	0.479837	Yes	No	No	No	No	No	No	No
4818	NKG7	natural killer cell group 7 sequence	0.48041	Yes	No	No	No	No	No	No	No
57763	ANKRA2	ankyrin repeat, family A (RFXANK-like), 2	0.483183	Yes	No	No	No	No	No	No	No
307	ANXA4	annexin A4	0.485495	Yes	Yes	No	No	No	No	No	No
80243	DEPDC2	DEP domain containing 2	0.486382	Yes	No	No	No	No	No	No	No
4719	NDUFS1	NADH dehydrogenase (ubiquinone) Fe-S protein 1, 75kDa (NADH-coenzyme Q reductase)	0.487001	No	No	No	No	No	Yes	No	No
90313	TP53I13	tumor protein p53 inducible protein 13	0.487386	No	No	No	No	No	Yes	No	No
2700	GJA3	gap junction protein, alpha 3, 46kDa	0.487738	Yes	No	No	No	No	No	No	No
92292	GLYATL1	glycine-N-acyltransferase-like 1	0.489792	Yes	No	No	No	No	No	No	No
57477	SHROOM4	shroom family member 4	0.492016	Yes	No	No	No	No	No	No	No
6347	CCL2	chemokine (C-C motif) ligand 2	0.492029	Yes	No	No	No	No	No	No	No

57121	LPAR5	lysophosphatidic acid receptor 5	0.492732	Yes	No	No	No	No	No	No	No
2207	FCER1G	Fc fragment of IgE, high affinity 1, receptor for, gamma polypeptide	0.49317	Yes	No	No	No	No	No	No	No
54933	RHBDL2	rhomboid, veinlet-like 2 (Drosophila)	0.495495	Yes	No	No	No	No	No	No	No
7130	TNFAIP6	tumor necrosis factor, alpha-induced protein 6	0.498376	Yes	No	No	No	No	No	No	No
57653	KIAA1529	KIAA1529	0.499367	Yes	No	No	No	No	No	No	No
27180	SIGLEC9	sialic acid binding Ig-like lectin 9	0.500041	Yes	No	No	No	No	No	No	No
280	AMY2B	amylase, alpha 2B (pancreatic)	0.502373	Yes	No	No	No	No	No	No	No
64388	GREM2	gremlin 2, cysteine knot superfamily, homolog (Xenopus laevis)	0.503404	Yes	No	No	No	No	No	No	No
3581	IL9R	interleukin 9 receptor	0.50482	Yes	No	No	No	No	No	No	No
796	CALCA	calcitonin-related polypeptide alpha	0.506322	Yes	No	No	No	No	No	No	No
11012	KLK11	kallikrein-related peptidase 11	0.507976	Yes	No	No	No	No	No	No	No
344	APOC2	apolipoprotein C-II	0.508155	Yes	No	No	No	No	No	No	No
57209	ZNF248	zinc finger protein 248	0.509637	Yes	No	No	No	No	No	No	No
80227	PAAF1	proteasomal ATPase-associated factor 1	0.511026	No	No	No	No	No	Yes	No	No
23246	BOP1	block of proliferation 1	0.514209	Yes	No	No	No	No	No	No	No
3897	L1CAM	L1 cell adhesion molecule	0.514881	Yes	No	No	No	No	No	No	No
2022	ENG	endoglin (Oster-Rendu-Weber syndrome 1)	0.515566	Yes	No	No	No	No	No	No	No
1406	CRX	cone-rod homeobox	0.516834	Yes	No	No	No	No	No	No	No
11096	ADAMT5	ADAM metalloproteinase with thrombospondin type 1 motif, 5 (aggrecanase-2)	0.517927	No	Yes	No	No	No	No	No	No
157869	RPESP	RPE-spondin	0.518572	Yes	No	No	No	No	No	No	No
6011	GRK1	G protein-coupled receptor kinase 1	0.519067	Yes	No	No	No	No	No	No	No
79726	WDR59	WD repeat domain 59	0.520891	Yes	No	No	No	No	No	No	No
57552	AADACL1	arylsulfatase-like 1	0.524607	Yes	No	No	No	No	No	No	No
527	ATP6V0C	ATPase, H+ transporting, lysosomal 16kDa, V0 subunit c	0.527156	Yes	No	No	No	No	No	No	No
353500	BMP8A	bone morphogenetic protein 8a	0.527356	Yes	No	No	No	No	No	No	No
6758	SSX5	synovial sarcoma, X breakpoint 5	0.529476	Yes	No	No	No	No	No	No	No
154075	SAMD3	sterile alpha motif domain containing 3	0.530376	Yes	No	No	No	No	No	No	No
189	AGXT	alanine-glyoxylate aminotransferase	0.533361	Yes	No	No	No	No	No	No	No
7673	ZNF222	zinc finger protein 222	0.534936	Yes	No	No	No	No	No	No	No
2832	NPBWR2	neuropeptides B/W receptor 2	0.535208	Yes	No	No	No	No	No	No	No
6926	TBX3	T-box 3 (lunar mammary syndrome)	0.536834	Yes	No	No	No	No	No	No	No
11202	KLK8	kallikrein-related peptidase 8	0.536991	No	Yes	No	No	No	No	No	No
1437	CSF2	colony stimulating factor 2 (granulocyte-macrophage)	0.539887	Yes	No	No	No	No	No	No	No
2907	GRINA	glutamate receptor, ionotropic, N-methyl D-aspartate-associated protein 1 (glutamate binding)	0.543179	Yes	No	No	No	No	No	No	No

6915	TBXA2R	thromboxane A2 receptor	0.543886	Yes	No	No	No	No	No	No
83933	HDAC10	histone deacetylase 10	0.551233	Yes	No	No	No	No	No	No
23787	MTCH1	mitochondrial carrier homolog 1 (C. elegans)	0.55225	Yes	No	No	No	No	No	No
1441	CSF3R	colony stimulating factor 3 receptor (granulocyte)	0.556032	Yes	No	No	No	No	No	No
5913	RAPSN	receptor-associated protein of the synapse	0.559184	Yes	No	No	No	No	No	No
124093	CCDC78	coiled-coil domain containing 78	0.560335	Yes	No	No	No	No	No	No
1004	CDH6	cadherin 6, type 2, K-cadherin (fetal kidney)	0.56158	Yes	No	No	No	No	No	No
23567	ZNF346	zinc finger protein 346	0.561831	Yes	No	No	No	No	No	No
5737	PTGFR	prostaglandin F receptor (FP)	0.563148	Yes	No	No	No	No	No	No
3880	KRT19	keratin 19	0.565938	Yes	No	No	No	No	No	No
10520	ZNF211	zinc finger protein 211	0.567065	Yes	No	No	No	No	No	No
6100	RP9	retinitis pigmentosa 9 (autosomal dominant)	0.569649	Yes	No	No	No	No	No	No
57631	LRCH2	leucine-rich repeats and calponin homology (CH) domain containing 2	0.570879	Yes	No	No	No	No	No	No
30846	EHD2	EH-domain containing 2	0.573497	Yes	No	No	No	No	No	No
219285	SAMD9L	sterile alpha motif domain containing 9-like	0.574022	Yes	No	No	No	No	No	No
27035	NOX1	NADPH oxidase 1	0.575929	Yes	No	No	No	No	No	No
491	ATP2B2	ATPase, Ca++ transporting, plasma membrane 2	0.576399	Yes	No	No	No	No	No	No
342926	ZNF677	zinc finger protein 677	0.577571	Yes	No	No	No	No	No	No
11314	CD300A	CD300a molecule	0.578206	Yes	No	No	No	No	No	No
6280	S100A9	S100 calcium binding protein A9	0.578834	Yes	No	No	No	No	No	No
2675	GFRA2	GDNF family receptor alpha 2	0.581077	Yes	No	No	No	No	No	No
5025	P2RX4	purinergic receptor P2X, ligand-gated ion channel, 4	0.5857	Yes	No	No	No	No	No	No
9628	RGS6	regulator of G-protein signaling 6	0.594414	Yes	No	No	No	No	No	No
10430	TMEM147	transmembrane protein 147	0.594445	Yes	Yes	No	No	No	No	No
91624	NEXN	nexlin (F actin binding protein)	0.594962	Yes	No	No	No	No	No	No
51471	NAT8B	N-acetyltransferase 8B (gene/pseudogene)	0.596896	Yes	No	No	No	No	No	No
84514	GHDC	GH3 domain containing	0.598406	Yes	No	No	No	No	No	No
60598	KCNK15	potassium channel, subfamily K, member 15	0.600407	Yes	No	No	No	No	No	No
30012	TLX3	T-cell leukemia homeobox 3	0.601501	Yes	No	No	No	No	No	No
63904	DUSP21	dual specificity phosphatase 21	0.604343	Yes	No	No	No	No	No	No
51246	SHISA5	shisa homolog 5 (Xenopus laevis)	0.605858	Yes	No	No	No	No	No	No
4881	NPR1	natriuretic peptide receptor A/guanylate cyclase A (atrionatriuretic peptide receptor A)	0.608054	Yes	No	No	No	No	No	No
146861	AMAC1	acyl-malonyl condensing enzyme 1	0.608165	Yes	No	No	No	No	No	No
128338	TMEM77	transmembrane protein 77	0.61121	Yes	No	No	No	No	No	No

203447	NRK	Nrk related kinase	0.613522	Yes	No	No	No	No	No	No
310	ANXA7	annexin A7	0.615947	Yes	No	No	No	No	No	No
29763	PACSIN3	protein kinase C and casein kinase substrate in neurons 3	0.617936	Yes	No	No	No	No	No	No
9397	NMT2	N-myristoyltransferase 2	0.622874	Yes	No	No	No	No	No	No
172	AFG3L1	AFG3 ATPase family gene 3-like 1 (S. cerevisiae)	0.624989	Yes	No	No	No	No	No	No
1014	CDH16	cadherin 16, KSP-cadherin	0.626195	Yes	No	No	No	No	No	No
4542	MYO1F	myosin IF	0.627466	Yes	No	No	No	No	No	No
5545	PRB4	proline-rich protein BtNI subfamily 4	0.628573	Yes	No	No	No	No	No	No
230	ALDOC	aldolase C, fructose-bisphosphate	0.628577	Yes	No	No	No	No	No	No
9401	RECQL4	RecQ protein-like 4	0.633522	No	No	No	No	No	Yes	No
181	AGRP	agouti related protein homolog (mouse)	0.63384	Yes	No	No	No	No	No	No
27123	DKK2	dickkopf homolog 2 (Xenopus laevis)	0.635433	No	Yes	No	No	No	No	No
6300	MAPK12	mitogen-activated protein kinase 12	0.6445	Yes	No	No	No	No	No	No
64849	SLC13A3	solute carrier family 13 (sodium-dependent dicarboxylate transporter), member 3	0.644573	Yes	No	No	No	No	No	No
955	ENTPD6	ectonucleoside triphosphate diphosphohydrolase 6 (putative function)	0.647645	Yes	No	No	No	No	No	No
3950	LECT2	leukocyte cell-derived chemotaxin 2	0.64819	Yes	No	No	No	No	No	No
23432	GPR161	G protein-coupled receptor 161	0.650882	Yes	No	No	No	No	No	No
946	SIGLEC6	sialic acid binding Ig-like lectin 6	0.653828	Yes	No	No	No	No	No	No
27241	BBS9	Bardet-Biedl syndrome 9	0.654577	Yes	No	No	No	No	No	No
3816	KLK1	kallikrein 1	0.655151	Yes	No	No	No	No	No	No
353274	ZNF445	zinc finger protein 445	0.655167	No	No	No	No	No	Yes	No
1268	CNR1	cannabinoid receptor 1 (brain)	0.661465	Yes	No	No	No	No	No	No
5361	PLXNA1	plexin A1	0.666714	Yes	No	No	No	No	No	No
2877	GPX2	glutathione peroxidase 2 (gastrointestinal)	0.669442	Yes	No	No	No	No	No	No
130574	LYPD6	LY6/PLAUR domain containing 6	0.669449	Yes	No	No	No	No	No	No
11156	PTP4A3	protein tyrosine phosphatase type IVA, member 3	0.671501	Yes	No	No	No	No	No	No
54363	HAO1	hydroxyacid oxidase (glycolate oxidase) 1	0.672647	Yes	No	No	No	No	No	No
10272	FSTL3	folistatin-like 3 (secreted glycoprotein)	0.675645	No	No	No	No	No	Yes	No
541469	LOC541469	hypothetical protein LOC541469	0.676104	Yes	No	No	No	No	No	No
54813	KLHL28	kelch-like 28 (Drosophila)	0.678228	Yes	No	No	No	No	No	No
10467	ZNHIT1	zinc finger, HIT type 1	0.681335	No	No	No	No	No	Yes	No
6036	RNASE2	ribonuclease, RNase A family, 2 (liver, eosinophil-derived neurotoxin)	0.685012	Yes	No	No	No	No	No	No
56917	MEIS3	Meis homeobox 3	0.685112	Yes	No	No	No	No	No	No
114904	C1QTNF6	C1q and tumor necrosis factor related protein 6	0.686506	Yes	No	No	No	No	Yes	No

51493	C2orf28	chromosome 22 open reading frame 28	0.687054	Yes	No	No	No	No	No	No	No
284402	LOC284402	hypothetical protein LOC284402	0.689033	Yes	No	No	No	No	No	No	No
866	SERPINA6	serpin peptidase inhibitor, clade A (alpha-1 antitrypsin), member 6	0.689097	Yes	No	No	No	No	No	No	No
26232	FBXO2	F-box protein 2	0.689695	Yes	No	No	No	No	No	No	No
49855	SCAPER	S phase cyclin A-associated protein in the ER	0.690669	Yes	No	No	No	No	No	No	No
10964	IFI44L	interferon-induced protein 44-like	0.69417	Yes	Yes	No	No	No	No	No	No
8829	NRP1	neuropilin 1	0.69426	Yes	No	No	No	No	No	No	No
5269	SERPINB6	serpin peptidase inhibitor, clade B (ovalbumin), member 6	0.695287	Yes	No	No	No	No	No	No	No
3177	SLC29A2	solute carrier family 29 (nucleoside transporters), member 2	0.697345	Yes	Yes	No	No	No	No	No	No
23516	SLC39A14	solute carrier family 39 (zinc transporter), member 14	0.69941	Yes	No	No	No	No	No	No	No
51171	HSD17B14	hydroxysteroid (17-beta) dehydrogenase 14	0.70322	Yes	No	No	No	No	No	No	No
8302	KLRC4	killer cell lectin-like receptor subfamily C, member 4	0.703488	Yes	No	No	No	No	No	No	No
84914	ZNF587	zinc finger protein 587	0.705733	Yes	No	No	No	No	No	No	No
10336	PCGF3	polycomb group ring finger 3	0.707346	Yes	No	No	No	No	No	No	No
6943	TCF21	transcription factor 21	0.709706	Yes	No	No	No	No	No	No	No
79014	C16orf67	chromosome 16 open reading frame 67	0.71235	Yes	No	No	No	No	No	No	No
7111	TMOD1	tropomodulin 1	0.713341	Yes	Yes	No	No	No	No	No	No
1395	CRHR2	corticotropin releasing hormone receptor 2	0.720474	Yes	No	No	No	No	No	No	No
2323	FLT3LG	fms-related tyrosine kinase 3 ligand	0.720722	Yes	No	No	No	No	No	No	No
7305	TYROBP	TYRO protein tyrosine kinase binding protein	0.723397	Yes	No	No	No	No	Yes	No	No
27177	IL1F8	interleukin 1 family, member 8 (eta)	0.725853	Yes	No	No	No	No	No	No	No
54600	UGT1A9	UDP glucuronosyltransferase 1 family, polypeptide A9	0.730087	Yes	No	No	No	No	No	No	No
1346	COX7A1	cytochrome c oxidase subunit VIIa polypeptide 1 (muscle)	0.730251	Yes	No	No	No	No	No	No	No
23275	POFUT2	protein O-fucosyltransferase 2	0.730366	No	Yes	No	No	No	No	No	No
8460	TPST1	tyrosylprotein sulfotransferase 1	0.730821	Yes	No	No	No	No	No	No	No
27434	POLM	polymerase (DNA directed), mu	0.732111	Yes	No	No	No	No	No	No	No
51148	CERCAM	cerebral endothelial cell adhesion molecule	0.733301	Yes	No	No	No	No	No	No	No
3855	KRT7	keratin 7	0.733306	Yes	No	No	No	No	No	No	No
1296	COL8A2	collagen, type VIII, alpha 2	0.734673	Yes	No	No	No	No	No	No	No
25794	FSCN2	fascin homolog 2, actin-bundling protein, retinal (Strongylocentrotus purpuratus)	0.734916	Yes	No	No	No	No	No	No	No
200420	ALMS1P	Alstrom syndrome 1 pseudogene	0.735769	Yes	No	No	No	No	No	No	No
9027	NAT8	N-acetyltransferase 8	0.735769	Yes	No	No	No	No	No	No	No
80339	PNPLA3	patatin-like phospholipase domain containing 3	0.735813	Yes	No	No	No	No	No	No	No
284443	ZNF493	zinc finger protein 493	0.737139	Yes	No	No	No	No	No	No	No

81844	TRIM56	tripartite motif-containing 56	0.738905	Yes	No	No	No	No	No	No	No
23214	XPO6	exportin 6	0.744117	Yes	No	No	No	No	No	No	No
7730	ZNF177	zinc finger protein 177	0.747598	Yes	No	No	No	No	No	No	No
65095	KRI1	KRI1 homolog (S. cerevisiae)	0.749042	Yes	No	No	No	No	No	No	No
51559	NT5DC3	5'-nucleotidase domain containing 3	0.751573	Yes	No	No	No	No	No	No	No
55211	DPPA4	developmental pluripotency associated 4	0.756682	Yes	No	No	No	No	No	No	No
84220	RGPD5	RANBP2-like and GRIP domain containing 5	0.757136	Yes	No	No	No	No	No	No	No
57156	TMEM63C	transmembrane protein 63C	0.758184	No	No	No	No	No	Yes	No	No
129530	LYG1	lysozyme G-like 1	0.759942	Yes	No	No	No	No	No	No	No
9569	GTF2IRD1	GTF2I repeat domain containing 1	0.760899	Yes	No	No	No	No	No	No	No
161725	OTUD7A	OTU domain containing 7A	0.761997	Yes	No	No	No	No	No	No	No
3294	HSD17B2	hydroxysteroid (17-beta) dehydrogenase 2	0.763638	Yes	No	No	No	No	No	No	No
163782	KANK4	KN motif and ankyrin repeat domains 4	0.766867	Yes	No	No	No	No	No	No	No
374393	FAM111B	family with sequence similarity 111, member B	0.766834	No	Yes	No	No	No	No	No	No
8225	GTPBP6	GTP binding protein 6 (putative)	0.77283	Yes	No	No	No	No	No	No	No
10068	IL18BP	interleukin 18 binding protein	0.77504	Yes	No	No	No	No	No	No	No
117194	MRGPRX2	MAS-related GPR, member X2	0.777793	Yes	No	No	No	No	No	No	No
1668	DEFA3	defensin, alpha 3, neutrophil-specific	0.778392	Yes	No	No	No	No	No	No	No
400077	FLJ42957	FLJ42957 protein	0.779216	Yes	No	No	No	No	No	No	No
57178	ZMI21	zinc finger, MIZ-type containing 1	0.780246	Yes	No	No	No	No	No	No	No
8722	CTSF	cathepsin F	0.785395	Yes	No	No	No	No	No	No	No
5228	PGF	placental growth factor	0.785995	Yes	No	No	No	No	No	No	No
7780	SLC30A2	solute carrier family 30 (zinc transporter), member 2	0.786516	Yes	No	No	No	No	No	No	No
4496	MT1H	metallothionein 1H	0.787904	Yes	No	No	No	No	No	No	No
27166	PRELID1	PRELI domain containing 1	0.788439	No	No	No	No	No	Yes	No	No
43847	KLK14	kallikrein-related peptidase 14	0.792594	Yes	No	No	No	No	No	No	No
11230	PRAF2	PRA1 domain family, member 2	0.792917	Yes	No	No	No	No	No	No	No
23255	KIAA0802	KIAA0802	0.793976	Yes	No	No	No	No	No	No	No
10017	BCL2L10	BCL2-like 10 (apoptosis facilitator)	0.799774	Yes	No	No	No	No	No	No	No
515	ATP5F1	ATP synthase, H+ transporting, mitochondrial F0 complex, subunit B1	0.802388	Yes	No	No	No	No	No	No	No
116447	TOP1MT	topoisomerase (DNA) I, mitochondrial	0.802415	Yes	No	No	No	No	No	No	No
8294	HIST1H4I	histone cluster 1, H4I	0.806642	No	Yes	No	No	No	Yes	No	No
147968	CAPN12	calpain 12	0.808009	Yes	No	No	No	No	No	No	No
64784	CRTC3	CREB regulated transcription coactivator 3	0.811364	Yes	No	No	No	No	No	No	No

124565	SLC38A10	solute carrier family 38, member 10	0.814602	Yes	No	No	No	No	No	No	No
152940	FLJ25371	hypothetical protein FLJ25371	0.820088	Yes	No	No	No	No	No	No	No
6837	MED22	mediator complex subunit 22	0.825557	Yes	No	No	No	No	No	No	No
1990	ELA1	elastase 1, pancreatic	0.827561	Yes	No	No	No	No	No	No	No
113	ADCY7	adenylate cyclase 7	0.828773	Yes	No	No	No	No	No	No	No
2328	FMO3	flavin containing monooxygenase 3	0.830202	Yes	No	No	No	No	No	No	No
54497	HEATR5B	HEAT repeat containing 5B	0.831654	Yes	No	No	No	No	No	No	No
2865	FFAR3	free fatty acid receptor 3	0.833557	Yes	No	No	No	No	No	No	No
11155	LDB3	LIM domain binding 3	0.833593	Yes	No	No	No	No	No	No	No
7180	CRISP2	cysteine-rich secretory protein 2	0.836246	Yes	No	No	No	No	No	No	No
4097	MAFG	v-maf musculoaponeurotic fibrosarcoma oncogene homolog G (avian)	0.839852	Yes	No	No	No	No	No	No	No
5098	PCDHGC3	protocadherin gamma subfamily C, 3	0.839971	No	No	No	No	No	Yes	No	No
146956	EME1	essential meiotic endonuclease 1 homolog 1 (S. pombe)	0.843389	No	No	No	No	No	Yes	No	No
283948	FLJ36208	hypothetical protein FLJ36208	0.844005	No	Yes	No	No	No	No	No	No
25823	TPSG1	trypsin gamma 1	0.844279	Yes	No	No	No	No	No	No	No
53905	DUOX1	dual oxidase 1	0.844682	Yes	No	No	No	No	No	No	No
128637	TBC1D20	TBC1 domain family, member 20	0.845787	Yes	No	No	No	No	No	No	No
5829	PXN	paxillin	0.849897	Yes	No	No	No	No	No	No	No
55224	ETNK2	ethanolamine kinase 2	0.852872	Yes	No	No	No	No	No	No	No
3640	INSL3	insulin-like 3 (Leydig cell)	0.854335	Yes	No	No	No	No	No	No	No
945	CD33	CD33 molecule	0.857421	Yes	No	No	No	No	No	No	No
10297	APC2	adenomatous polyposis coli 2	0.858603	Yes	No	No	No	No	No	No	No
200010	SLC5A9	solute carrier family 5 (sodium/glucose cotransporter), member 9	0.860629	Yes	No	No	No	No	No	No	No
10053	AP1M2	adaptor-related protein complex 1, mu 2 subunit	0.863399	Yes	No	No	No	No	No	No	No
84839	RAX2	retina and anterior neural fold homeobox 2	0.863614	Yes	No	No	No	No	No	No	No
64582	GPR135	G protein-coupled receptor 135	0.86758	Yes	No	No	No	No	No	No	No
51298	THEG	Theg homolog (mouse)	0.869414	Yes	No	No	No	No	No	No	No
4759	NEU2	sialidase 2 (cytosolic sialidase)	0.872426	Yes	No	No	No	No	No	No	No
7455	ZAN	zonadhesin	0.876972	Yes	No	No	No	No	No	No	No
10398	MYL9	myosin, light chain 9, regulatory	0.877701	Yes	No	No	No	No	No	No	No
8839	WISP2	WNT1 inducible signaling pathway protein 2	0.877864	Yes	No	No	No	No	No	No	No
162461	TMEM92	transmembrane protein 92	0.887179	Yes	No	No	No	No	No	No	No
2589	GALNT1	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 1 (GalNAc-T1)	0.889961	Yes	Yes	No	No	No	No	No	No
7789	ZXDA	zinc finger, X-linked, duplicated A	0.891082	Yes	No	No	No	No	No	No	No

5260	PHKG1	phosphorylase kinase, gamma 1 (muscle)	0.892381	Yes	No	No	No	No	No	No	No
26086	GPSM1	G-protein signaling modulator 1 (AGS3-like, C. elegans)	0.893831	Yes	No	No	No	No	No	No	No
115811	IQCD	IQ motif containing D	0.896948	No	No	No	No	No	Yes	No	No
90233	ZNF551	zinc finger protein 551	0.897979	Yes	No	No	No	No	No	No	No
200958	MUC20	mucin 20, cell surface associated	0.898007	Yes	No	No	No	No	No	No	No
79698	ZMAT4	zinc finger, matrix type 4	0.89842	No	Yes	No	No	No	No	No	No
3384	ICAM2	intercellular adhesion molecule 2	0.899078	Yes	No	No	No	No	No	No	No
84518	CNFN	cornifelin	0.900218	Yes	No	No	No	No	No	No	No
2866	GPR42P	G protein-coupled receptor 42 pseudogene	0.902043	Yes	No	No	No	No	No	No	No
85329	LGALS12	lectin, galactoside-binding, soluble, 12 (galectin 12)	0.904544	Yes	No	No	No	No	No	No	No
10581	IFITM2	interferon induced transmembrane protein 2 (1-8D)	0.906036	Yes	No	No	No	No	No	No	No
6277	S100A6	S100 calcium binding protein A6	0.907232	Yes	No	No	No	No	No	No	No
10578	GNLY	granulysin	0.909998	Yes	No	No	No	No	No	No	No
6273	S100A2	S100 calcium binding protein A2	0.91199	Yes	No	No	No	No	No	No	No
3316	HSPB2	heat shock 27kDa protein 2	0.914713	Yes	No	No	No	No	No	No	No
1861	TOR1A	torsin family 1, member A (torsin A)	0.915697	Yes	No	No	No	No	No	No	No
200008	CDCP2	CUB domain containing protein 2	0.918728	Yes	No	No	No	No	No	No	No
9629	CLCA3	chloride channel, calcium activated, family member 3	0.922068	Yes	No	No	No	No	No	No	No
8857	FCGBP	Fc fragment of IgG binding protein	0.923108	Yes	No	No	No	No	No	No	No
8572	PDLIM4	PDZ and LIM domain 4	0.925788	Yes	No	No	No	No	No	No	No
56477	CCL28	chemokine (C-C motif) ligand 28	0.926153	Yes	No	No	No	No	No	No	No
8677	STX10	syntaxin 10	0.926739	No	No	No	No	No	Yes	No	No
57053	CHRNA10	cholinergic receptor, nicotinic, alpha 10	0.926742	Yes	No	No	No	No	No	No	No
1951	CELSR3	cadherin, EGF LAG seven-pass G-type receptor 3 (flamingo homolog, Drosophila)	0.928214	Yes	No	No	No	No	No	No	No
3957	LGALS2	lectin, galactoside-binding, soluble, 2	0.928753	Yes	No	No	No	No	No	No	No
64096	GFRA4	GDNF family receptor alpha 4	0.929715	Yes	No	No	No	No	No	No	No
27085	MTBP	Mdm2, transformed 3T3 cell double minute 2, p53 binding protein (mouse) binding protein, 104kDa	0.931469	Yes	No	No	No	No	Yes	No	No
150290	DUSP18	dual specificity phosphatase 18	0.931658	Yes	No	No	No	No	No	No	No
26260	FBXO25	F-box protein 25	0.93282	Yes	No	No	No	No	No	No	No
201191	SAMD14	sterile alpha motif domain containing 14	0.934016	Yes	No	No	No	No	No	No	No
27037	HTF9C	HpaII tiny fragments locus 9C	0.934638	Yes	No	No	No	No	No	No	No
158947	ARMCX4	armadillo repeat containing, X-linked 4	0.938659	Yes	No	No	No	No	No	No	No
256691	MAMDC2	MAM domain containing 2	0.940434	Yes	No	No	No	No	No	No	No
1629	DBT	dihydroipoamide branched chain transacylase E2	0.94138	Yes	No	No	No	No	No	No	No

6195	RPS6KA1	ribosomal protein S6 kinase, 90kDa, polypeptide 1	0.990684	Yes	No	No	No	No	No	No	No
3959	LGALS3BP	lectin, galactoside-binding, soluble, 3 binding protein	0.990838	Yes	No	No	No	No	No	No	No
115294	PCMTD1	protein-L-isoaspartate (D-aspartate) O-methyltransferase domain containing 1	0.99088	Yes	No	No	No	No	No	No	No
6367	CCL22	chemokine (C-C motif) ligand 22	0.993215	Yes	No	No	No	No	No	No	No
4057	LTF	lactotransferrin	0.994124	Yes	No	No	No	No	No	No	No
140625	ACTRT2	actin-related protein T2	0.994554	Yes	No	No	No	No	No	No	No
57644	MYH7B	myosin, heavy chain 7B, cardiac muscle, beta	0.995974	Yes	No	No	No	No	No	No	No
3421	IDH3G	isocitrate dehydrogenase 3 (NAD+) gamma	0.996299	Yes	No	No	No	No	No	No	No
84000	TMPRSS13	transmembrane protease, serine 13	0.996905	Yes	No	No	No	No	No	No	No
55876	GSDML	gasdermin-like	0.997025	Yes	No	No	No	No	No	No	No
196463	P76	mannose-6-phosphate protein p76	0.997484	Yes	No	No	No	No	No	No	No
4352	MPL	myeloproliferative leukemia virus oncogene	0.997886	Yes	No	No	No	No	No	No	No
6370	CCL25	chemokine (C-C motif) ligand 25	0.999043	Yes	No	No	No	No	No	No	No
400451	FAM174B	family with sequence similarity 174, member B	0.99939	Yes	No	No	No	No	No	No	No
10107	TRIM10	tripartite motif-containing 10	0.999852	Yes	No	No	No	No	No	No	No
1455	CSNK1G2	casein kinase 1, gamma 2	1.00033	Yes	No	No	No	No	No	No	No
140710	C20orf117	chromosome 20 open reading frame 117	1.00091	NA*	Yes	No	No	No	No	No	No
118738	ZNF488	zinc finger protein 488	1.00113	Yes	No	No	No	No	No	No	No
3373	HYAL1	hyaluronoglucosaminidase 1	1.00113	Yes	No	No	No	No	No	No	No
89848	FCHSD1	FCH and double SH3 domains 1	1.00155	Yes	No	No	No	No	No	No	No
389763	FLJ46321	FLJ46321 protein	1.00233	Yes	No	No	No	No	No	No	No
7138	TNNT1	troponin T type 1 (skeletal, slow)	1.00236	Yes	No	No	No	No	No	No	No
10004	NAALADL1	N-acetylated alpha-linked acidic dipeptidase-like 1	1.00245	Yes	No	No	No	No	No	No	No
201931	TMEM192	transmembrane protein 192	1.00255	Yes	No	No	No	No	No	No	No
8859	STK19	serine/threonine kinase 19	1.0035	Yes	No	No	No	No	No	No	No
3263	HPX	hemopexin	1.00369	Yes	No	No	No	No	No	No	No
6911	TBX6	T-box 6	1.00369	No	No	No	No	No	Yes	No	No
6742	SSBP1	single-stranded DNA binding protein 1	1.00373	Yes	No	No	No	No	Yes	No	No
83697	SLC4A9	solute carrier family 4, sodium bicarbonate cotransporter, member 9	1.00378	Yes	No	No	No	No	No	No	No
79958	DENND1C	DENN/MADD domain containing 1C	1.00441	Yes	No	No	No	No	No	No	No
10990	LILRB5	leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 5	1.00491	Yes	No	No	No	No	No	No	No
3554	IL1R1	interleukin 1 receptor, type 1	1.00505	Yes	No	No	No	No	No	No	No
1805	DPT	dermatopontin	1.00522	Yes	No	No	No	No	No	No	No
64848	YTHDC2	YTH domain containing 2	1.00533	No	Yes	No	No	No	No	No	No

6991	TCTE3	t-complex-associated-testis-expressed 3	1.00537	No	No	No	No	No	Yes	No
4493	MT1E	metallothionein 1E	1.00542	Yes	No	No	No	No	No	No
167410	LIX1	Lix1 homolog (chicken)	1.0057	Yes	No	No	No	No	No	No
285464	CRIPAK	cysteine-rich PAK1 inhibitor	1.00574	Yes	No	No	No	No	No	No
148156	ZNF558	zinc finger protein 558	1.00578	Yes	No	No	No	No	No	No
1018	CDK3	cyclin-dependent kinase 3	1.00578	Yes	No	No	No	No	No	No
9904	RBM19	RNA binding motif protein 19	1.00581	Yes	No	No	No	No	No	No
4992	OR1F1	olfactory receptor, family 1, subfamily F, member 1	1.00582	Yes	No	No	No	No	No	No
132954	PDCL2	phosducin-like 2	1.0059	Yes	No	No	No	No	No	No
26119	LDLRAP1	low density lipoprotein receptor adaptor protein 1	1.0059	Yes	No	No	No	No	No	No
6737	TRIM21	tripartite motif-containing 21	1.00596	Yes	No	No	No	No	No	No
5920	RARRES3	retinoic acid receptor responder (tazarotene induced) 3	1.006	Yes	No	No	No	No	No	No
83483	PLVAP	plasmalemma vesicle associated protein	1.00604	Yes	No	No	No	No	No	No
29952	DPP7	dipeptidyl-peptidase 7	1.00605	Yes	No	No	No	No	No	No
84197	FLJ23356	hypothetical protein FLJ23356	1.00608	No	No	No	No	No	Yes	No
283150	FOXR1	forkhead box R1	1.00609	Yes	No	No	No	No	No	No
3572	IL6ST	interleukin 6 signal transducer (gp130, oncostatin M receptor)	1.00623	Yes	No	No	No	No	No	No
27293	SMPDL3B	sphingomyelin phosphodiesterase, acid-like 3B	1.00628	Yes	No	No	No	No	No	No

Note: NA*=These genes were omitted from differential expression calculations due to disagreement between Affymetrix probe annotation and the up-to-date AffyProbeMiner annotation.